PUNIITH PURITIPATI

Full Stack Developer

Atlanta, GA, United States

(470) 791-1143   puritipati.puniith@gmail.com

LINKS

LinkedIn, GitHub, Portfolio

PROFILE

Over 6 years of experience in full-stack development, data engineering, and cloud-based infrastructure with a focus on building scalable, high-performance solutions for large-scale financial platforms. Currently leading the design and development of AWS Lambda-based data pipelines to ingest, classify, and transform mortgage-related datasets, integrating them into storage systems like RDS, Glue, and DynamoDB. Skilled in Python, SQL, and Bash, with hands-on expertise across AWS services including Lambda, Glue, Redshift, S3, ECS, EMR, and DynamoDB. Experienced in optimizing data workflows, automating recurring jobs, and delivering new data capabilities based on business feedback. Proficient in DevOps practices using Jenkins and CodeBuild, with a strong foundation in Agile methodologies, microservices architecture, and backend system design. Proven ability to translate complex requirements into reliable, production-ready solutions aligned with enterprise goals.

EMPLOYMENT HISTORY

♣ Software Developer, CGI · Aug 2024 — Present

Atlanta, GA, USA · Hybrid

Client: Fannie Mae

Project: Enterprise Data Engineering – Automated Capital Engine (ACE)

As part of CGI's Cloud Enablers team, I support Fannie Mae's Automated Capital Engine (ACE) platform, working on scalable data workflows designed to process high-volume, mortgage-related data. This includes integrating batch files received daily from both internal sources and FHFA-aligned institutions such as Freddie Mac and Ginnie Mae. My primary responsibility involves building AWS Lambda pipelines to transform and ingest data into systems like RDS, Glue, and DynamoDB, based on business-provided attribute mapping logic. The role also requires delivering new job flows and enhancements based on business demand while maintaining system reliability and cloud efficiency. I collaborate closely with cross-functional teams to align data engineering solutions with business objectives and regulatory requirements. Additionally, I contribute to streamlining job orchestration strategies to handle interdependent workflows with minimal latency.

Responsibilities:

- Support Fannie Mae's Automated Capital Engine (ACE) platform as part of CGI's Cloud Enablers team, operating at the L3 level.
- Manage ingestion and processing of mortgage-related datasets, including those sourced from FHFA partners such as Freddie Mac and Ginnie Mae.
- Develop AWS Lambda functions to apply attribute-based transformation logic and load data into RDS, Glue, and DynamoDB.
- Deliver enhancements to job flows across daily, monthly, and annual schedules, responding to evolving business requirements.
- Support data classification efforts, including segregation into single-family and multi-family categories.
- Ensure system scalability and stability across cloud-based infrastructure.
- Collaborate with infrastructure and analytics teams to ensure timely delivery and high availability of data products for downstream consumers.

Tech Stack: Python, SQL, Bash, AWS (Lambda, Glue, RDS, DynamoDB, Redshift, S3, ECS, EMR, CodeBuild, SNS, SQS, AppStream), Jenkins, ECM, Kinetic.

♣ Associate Consultant, Loyalty Methods · · Jun 2021 — Jan 2024

Hyderabad, TG, India

Throughout my tenure at Loyalty Methods (formerly Rythmos), I worked with clients to deliver scalable systems through strategic planning and technical ownership. I was promoted from Junior Associate Consultant to Associate Consultant in February 2023 for leading innovative solutions and managing complex projects.

The key responsibilities and contributions to each client are as follows:

Client: Speedway

Project: Data Migration and Product Development

Responsibilities:

- Led the Data Migration team, designing architectural approaches and planning deliverables.
- Configured AWS EC2 environments, implemented SQL transformations, and managed YAML configurations.
- Developed Node.js applications, built Lambda functions, and configured AWS LEX chatbots for interactive solutions.
- Migrated CI/CD pipelines to AWS CodePipeline for Python applications, improving deployment efficiency.
- Participated in Agile ceremonies and ensured alignment of solutions with business goals.
- Led the design, development, unit testing, and behavior-driven development (BDD) processes.
- Architected and implemented RESTful services, reviewed release notes, and effectively mapped system changes.
- Provided mentorship to offshore teams and oversaw version control through Git repository management.
- Provided technical leadership in optimizing data workflows, reducing processing times, and enhancing overall system performance.

Client: MGM Resorts International

Project: Strategic Product Development

Responsibilities:

- Developed microservices for secure access and automated testing workflows using Mocha and Jest.
- Configured LDAP for secure authentication and access control.
- Migrated and managed CI/CD pipelines in GitLab to streamline deployment.
- Monitored systems using Grafana and Kibana, ensuring high availability and performance.
- Analyzed requirements, created application flow diagrams, and participated in PI planning sessions.
- Enhanced legacy systems and automated tasks using Python, improving overall system efficiency.
- Integrated data across systems, developed Node.js applications, and supported production environments with proactive measures.
- Collaborated with cross-functional teams to design scalable solutions aligned with business objectives.
- Provided technical expertise during troubleshooting sessions, promptly resolving critical system issues.
- Partnered with teams to integrate migrated systems, ensuring data integrity and minimal downtime.

Client: 7-Eleven

Project: Loyalty Engine

Responsibilities:

- Gathered requirements and led technical requirement gathering, ensuring clear and actionable feature-level specifications.
- Participated in Program Increment (PI) planning and designed workflows for enhanced system functionality.
- Built and maintained end-to-end MEAN Stack components, seamlessly integrating UI with backend systems.
- Designed and implemented RESTful web services and customized workflows for leads, campaigns, and
- Databases.
- Led design, coding, unit testing, and automation (BDD), ensuring quality and timely deliverables.
- Mentored offshore teams, managed GIT repositories, resolved production tickets, and updated backlogs
- with defect fixes.
- Integrated business flows, maintained RESTful services, and supported continuous delivery setups using Jenkins.

Tech Stack Across Projects: JavaScript, Python, Scala, YAML, SQL, HTML, Node.js, Next.js, Angular, React.js, AngularJS, MEAN stack, MongoDB, Visual Studio Code, Git, AWS, Heroku, Jenkins, Splunk, Kali Linux, Agile Scrum, Jira.

❖ Full Stack Developer Intern, SellSage LLC Jul 2021 — Jun 2022

<div style="text-align:right">Canton, MI, USA · Remote</div>

As a Full Stack Developer Intern at SellSage LLC, a subsidiary of Marimba Auto LLC, contributed to website maintenance and the development of an innovative onboarding portal. Collaborating with cross-functional teams, I designed and implemented scalable solutions using Next.js, Node.js, and AWS, ensuring alignment with business goals and driving operational efficiency.

Project: Website Maintenance and Onboarding Portal

Responsibilities:

- Collaborated extensively with the sales and marketing team to meticulously gather and understand software development requirements, ensuring alignment with business goals.
- Conducted detailed design sessions and formulated a robust architecture to meet the evolving needs of sales and marketing applications.
- Actively contributed to the end-to-end development life cycle, employing Next.js and Node.js technologies to build and maintain dynamic web applications.
- Leveraged AWS services to drive back-end development, employing serverless computing with AWS Lambda, ensuring optimal data storage with Amazon DynamoDB, and facilitating seamless deployment using Amazon S3.
- Developed and implemented a groundbreaking Excel-to-DynamoDB update system, utilizing AWS Lambda functions to significantly reduce stock update times, enhancing overall operational efficiency.
- Spearheaded the creation of a new onboarding tool for sustainable businesses, showcasing a commitment to innovation and contributing to the development of an eco-friendly solution aligned with industry best practices.
- Engineered a sustainable Green E-commerce Platform, embodying a dedication to environmentally responsible solutions, leaving a lasting impact on both users and the ecosystem.
- Played a pivotal role in the implementation of an automated marketing mail portal, offering an efficient alternative to existing services and streamlining communication strategies.

Tech Stack: Python, JavaScript, PHP, Shell Scripting, Angular, AngularJS, Node.js, Next.js, Express.js, React.js, MEAN, Amazon S3, Amazon Web Services, Git, Machine Learning, Data Integration, Data Migration, Debugging, Product Service, Software Infrastructure, Agile Web Development, Full-Stack Development.

❖ Software Developer Intern, My Creative Child Jan 2021 — Mar 2021

<div style="text-align:right">Delhi, India · Remote</div>

Responsibilities:

- Developed and deployed a comprehensive website to effectively communicate the organization's mission, creativity, and value to its target audience.
- Designed an interactive and dynamic user experience tailored to engage children, fostering meaningful connections and a lasting impact.
- Executed full-stack development using Angular, Node.js, and Next.js to achieve seamless front-end and back-end integration.
- Implemented a scalable and secure infrastructure utilizing AWS services, including Amazon S3, to optimize website performance and reliability.
- Utilized expertise in the MEAN stack alongside modern frameworks such as React.js and Express.js to build a versatile and responsive web platform.
- Strengthened the organization's online presence by delivering an engaging, user-centric website aligned with strategic objectives.
- Showcased proficiency in software infrastructure, back-end development, and front-end frameworks to deliver a robust and high-quality solution.

Tech Stack: JavaScript, Angular, AngularJS, Node.js, Next.js, Express.js, React.js, MEAN, Amazon S3, Amazon Web Services, Git, Jira, Software Infrastructure, Full-Stack Development.

❖ Software Developer Intern, AIEdge Technologies Private Limited Jun 2019 — Jan 2020

<div style="text-align:right">Hyderabad, TG, India</div>

Responsibilities:

- Contributed to front-end development and dashboard creation, enhancing user experience and data visualization.
- Gained hands-on experience with advanced AI technologies, including Tesseract OCR and Convolutional Neural Networks (CNNs).

- Designed and implemented innovative applications using AI and ML technologies, delivering impactful solutions.
- Integrated Tesseract OCR into a web application for seamless text recognition and extraction.
- Developed an ad-hoc data loading solution, optimizing data handling and processing efficiency.
- Acquired comprehensive exposure to end-to-end software development in a professional, product-focused environment.
- Recognized as part of a high-achieving team featured in SwiftnLift Business Magazine's October 2019 issue as one of the "***10 Most Promising Startups of 2019***."

Tech Stack: JavaScript, PHP, Node.js, React.js, Tesseract Optical Character Recognition (OCR), Artificial Intelligence, Convolutional Neural Networks (CNN), Software Infrastructure, Full-Stack Development.

❖ Full Stack Developer Intern, PacketPrep
May 2019 — Jun 2019
Hyderabad, TG, India

Gained hands-on expertise in full-stack web development by designing and building web applications from the ground up, utilizing PHP, JavaScript, and MEAN stack technologies to create robust applications aligned with project requirements.

Responsibilities:

- Developed intuitive and user-friendly interfaces using modern front-end frameworks, ensuring a seamless user experience.

- Engineered efficient back-end systems and integrated databases to deliver scalable and high-performance web solutions.

- Applied Bootstrap for responsive design, ensuring accessibility and compatibility across devices.

- Contributed to software infrastructure enhancements, demonstrating proficiency in both front-end and back-end development practices.

- Delivered end-to-end solutions showcasing the ability to manage the complete development life cycle effectively.

Tech Stack: PHP, JavaScript, HTML, CSS, SQL, DBMS, MEAN stack, Bootstrap, XAMPP.

PROJECTS

❖ A Novel Data Hiding Algorithm for High Dynamic Range Images
Dec 2020 — Feb 2021

Developed an innovative data hiding algorithm specifically designed for OpenEXR HDR(High Dynamic Range) images as part of my final year project during my bachelor's degree. This algorithm generates Stego HDR images with a high embedding rate while maintaining exceptional visual quality, ensuring they remain indistinguishable to malicious eavesdroppers. It is the first algorithm of its kind for OpenEXR HDR images, combining advanced data security with seamless visual integrity.

Tech Stack: Python, PHP, Digital Image Processing, Encryption Software.

❖ GoalsBoxes.com – A Social Networking Web Application
Jun 2020 — Oct 2020

As a Web-App Developer, I designed and developed the complete front-end and back-end of a social networking web application. The platform connects aspirants with specific goals to mentors who possess expertise in the relevant fields. It enables meaningful interactions where mentors address questions, clarify doubts, and provide motivation through insightful articles and resources. The project utilized HTML, CSS, and the latest version of the Bootstrap framework. I collaborated closely with my college recruiting officer/mentor on this project, which provided valuable insights into aligning technical solutions with organizational objectives. Additionally, I leveraged the skills acquired during this project to design a college website, further enhancing my expertise in modern web development.

Tech Stack: PHP, JavaScript, Shell Scripting, Node.js, React.js, AngularJS, MEAN, jQuery, Bootstrap, Material-UI, XAMPP, Git, GitLab, Debugging, Agile Web Development, Software Development, Full-Stack Development.

❖ **Tyred.in – An Automobile Service Booking Application** .... Mar 2020 — May 2020

As a Web-App Developer, I developed a concept application for automobile service booking, allowing users to seamlessly book services and receive assistance directly at their location. The application connects local garages with individuals in need of immediate road assistance, providing a reliable and efficient solution for on-demand automotive support.

Tech Stack: PHP, JavaScript, Shell Scripting, Node.js, React.js, AngularJS, MEAN, jQuery, Bootstrap, Material-UI, XAMPP, Git, GitLab, Debugging, Agile Web Development, Full-Stack Development.

❖ **Weather Monitoring System Using Raspberry Pi** .... Jun 2019 — Aug 2019

This project provides an advanced solution for monitoring and tracking weather conditions at a specific location, making real-time data accessible to users anytime, anywhere via a web application. In addition to collecting real-time weather data, the system analyzes historical data over time to make accurate predictions using Linear Regression and Naive Bayes algorithms.

Tech Stack: Python, PHP, SQL, XAMPP, Database Management System (DBMS), Raspberry Pi, Full-Stack Development.

EDUCATION

❖ **JNTUH** .... Mar 2017 — Apr 2021

Bachelor of Information Technology

Hyderabad, TG, India

Grade: A+ (7.6 GPA)

- Acquired comprehensive knowledge in programming, software development, and system design.
- Completed projects that applied IT theories to practical, real-world challenges.
- Demonstrated strong problem-solving and analytical skills through coursework and hands-on assignments.
- Collaborated effectively in team environments, showcasing leadership and communication abilities.
- Gained proficiency in modern technologies and tools, including programming languages, databases, and development frameworks.
- Participated in technical seminars and workshops, enhancing knowledge of industry trends and emerging technologies.

COURSES & CERTIFICATIONS

❖ **Python Programming** .... Apr 2021

Coursera

❖ **Data Science** .... Feb 2021 — May 2021

NUCOT Technologies

❖ **Ethical Hacking** .... Dec 2017

Z Technologies

❖ **Ethical Hacking** .... Jul 2017

Spyry Technologies

❖ **Ethical Hacking** .... Dec 2016

Lucideus Technologies

SKILLS

JavaScript	*Expert*
Python	*Expert*
TypeScript	*Expert*
SQL	*Expert*
PHP	*Expert*
Bash	*Expert*
React	*Expert*
Angular	*Expert*
Angular Material	*Expert*
Next.js	*Expert*
Bootstrap	*Expert*
HTML/CSS	*Expert*
Angular CLI	*Expert*
Node.js	*Expert*
Express.js	*Expert*
Django	*Expert*
MongoDB	*Expert*
MySQL	*Expert*
Amazon Web Services (AWS)	*Expert*
AWS Lambda	*Expert*
AWS Glue	*Expert*
Amazon RDS	*Expert*
Amazon DynamoDB	*Expert*
Amazon Redshift	*Expert*
Amazon S3	*Expert*
Amazon ECS	*Expert*
Amazon EMR	*Expert*
AWS CodeBuild	*Expert*
Amazon SNS	*Expert*
Amazon SQS	*Expert*
AWS AppStream	*Expert*
API Gateway	*Expert*
CloudFormation	*Expert*
Serverless Computing	*Expert*
Docker	*Expert*
Containerization	*Expert*
Jenkins	*Expert*
YAML	*Expert*
CI/CD - Continuous Integration/Continuous Deployment	*Expert*
Infrastructure Automation	*Expert*
Git	*Expert*
GitHub	*Expert*
GitLab	*Expert*
JIRA	*Expert*
Linux	*Expert*
Kali Linux	*Expert*
Grafana	*Expert*
Kibana	*Expert*
Microservices	*Expert*
Agile Software Development	*Expert*
Automation	*Expert*
Software Infrastructure	*Expert*
Code Coverage	*Expert*
ETL Pipelines	*Expert*
Batch Data Processing	*Expert*
Job Orchestration Strategies	*Expert*
Attribute-Based Transformation Logic	*Expert*
API Development	*Expert*
Data Migration	*Expert*
Web Applications	*Expert*
User Experience Design	*Expert*
MERN Stack	*Expert*
MEAN Stack	*Expert*
ECM	*Expert*
Kinetic	*Expert*
GraphQL	*Experienced*