

Prasanna Balaji T P

Developer & Designer

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SUMMARY

Experienced Associate Software Developer with 4 years of expertise in software development, Python and Web development. Demonstrated history of creating innovative application features and software solutions to enhance user experience.

SKILLS

Python (Backend, Microservices, APIs)

LLM - *Azure OpenAI (GPT3.5), Anthropic Claude (Claude 3.5 Sonnet)*

Cloud - *Amazon Web Services, Terraform (Basic)*

Framework - *FastAPI, Flask, LangChain*

Database - *MongoDB, PostgreSQL, MySQL*

Containerization - *Docker, Kubernetes*

DevOps/CI/CD - Jenkins

EXPERIENCE

Acubetech Solutions Private Limited

Artificial Intelligence Engineer

JAN 2025 – Present (10 months)

- Engineered and optimized prompts for Claude AI (Anthropic), improving generation accuracy, coherence, and alignment with user intent.
- Created multi-step prompt chains and optimized prompts for advanced scenarios..
- Used AWS Bedrock APIs to run Claude 3.5 Sonnet, enabling fast, scalable, and cost-effective LLM-powered solutions.
- Integrated Claude AI with internal Python microservices and APIs to automate workflows for documentation, code reviews, and knowledge extraction.
- Utilized AWS Bedrock to interact with Claude-3.5 Sonnet Model, retrieving LLM outputs efficiently and ensuring scalable AI integration.
- Collaborated cross-functionally to tailor Claude's behavior, enhancing usability.
- Focused on LLM evaluation, iterating on prompt performance to improve agent reliability and reduce hallucination.
- Designed and maintained backend Python services for scalable AI integration, ensuring efficient workflows and API-based automation.
- Ensured prompt outputs matched UI expectations and user flows through collaboration with frontend and QA teams.
- Implemented context-aware prompt templates that dynamically adjusted based on the subject matter or input complexity.
- Designed prompt strategies to evaluate student answers and generate accurate, personalized feedback.

Torry Harris Integration Solutions

Associate Software Engineer

JUN 2023 – DEC 2024 (1.6 yrs.)

- Built and maintained AI chatbot platform using LLMs (LangChain) and Python microservices (FastAPI) supporting scalable workflows.
- Developed and integrated APIs connecting chatbot with MongoDB, Milvus, and LangChain components; experimented with PostgreSQL and SQLAlchemy.
- Improved chatbot responsiveness by 40% with Redis caching and fine-tuned AI models using Azure OpenAI GPT-3.5, boosting performance 30%.
- Managed data deployment across 20+ containers with Azure Blob Storage for scalability.
- Led Agile development across 5+ sprints; tracked work using Jira and version-controlled 50+ APIs with Git (GitHub).
- Collaborated with cross-functional teams (QA, frontend, DevOps) to define API contracts and streamline delivery.
- Conducted code reviews enforcing best practices, improving code quality and maintainability.
- Documented system architecture and API workflows with clear diagrams for effective cross-team communication.
- Proactively identified and resolved performance bottlenecks within microservices, improving system stability and reducing latency under peak loads.
- Participated in sprint retrospectives and contributed actionable insights to continuously improve team processes and delivery quality.
- Implemented logging and analytics using ELK Stack to monitor chatbot interactions and optimize performance.
- Gained familiarity with message-based async communication patterns to enhance microservice scalability and reliability.

Associate Software Engineer

MAY 2022 – JUN 2023(1.1 yrs.)

- Crafted and Deployed ESB solution to integrate 10+ systems and applications.
- Orchestrated ESB components such as more than 5 message brokers, connectors and service orchestration.
- Developed and exposed internal services as APIs, enabling seamless communication between multiple applications and systems.
- Optimized System performance and enforced security measures.
- Gathered requirements, documented 20+ processes and enhanced performance.
- Collaborate with stakeholders and update practices based on industry needs.

Associate Software Engineer - Trainee

AUG 2021 – MAY 2022 (0.5 yrs.)

- Designed and implemented two Spring Boot applications: one for train ticket reservation and another for Online Bookstore.
- Focused on
 - Core functionalities such as journey date, passenger details and booking processing, tested with 50+ simulated transactions
 - Features like book selection limits, favorites management and cart functionality, tested with 50 + mock users respectively.
- Improved user experience through efficient backend development, reducing simulated response time by 40%.
- Configured and maintained EC2 instances on AWS, handling provisioning, resource allocation, and performance optimization to ensure application scalability and reliability • Containerized 2+ Spring Boot application using Docker, ensuring consistent development and deployment environments.
- Automated CI/CD process with Jenkins, streamlining build, test, and deployment workflows and cutting process time by 50%.
- Participated in code reviews for 2+ projects to uphold coding standards, improve code quality, and ensure consistency across projects.

AWARDS & CERTIFICATIONS

Rookie of the Quarter, (Torry Harris Integration Solutions)

Team Excellence Award, (Torry Harris Integration Solutions)

AWS Cloud Essentials Knowledge Badge Assessment

EDUCATION

Bachelor of Technology (Information Technology)

K. L. N. College of Information Technology, Tamil Nadu

AUG 2017 – JUL 2021