

# Prasanna Balaji T P

Developer & Designer

+91 9597161471 | [prasannabalajitp470@outlook.com](mailto:prasannabalajitp470@outlook.com) | [GitHub](#) | [LinkedIn](#)

---

## **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