

PRADIP DHAKAL

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Summary

Experienced full-stack engineer and AI systems architect with 6+ years of professional expertise in **building and scaling intelligent automation for fintech products**. Spearheaded the design and deployment of **multiagent systems that automate KYC, portfolio analysis, loan approvals, and support, driving measurable business impact and efficiency**. Leading cross-functional initiatives from ground zero to production. Passionate about building forward-looking AI-first architectures that align closely with business goals

Experience

Wealthy

May 2024 – Current

Senior Software Engineer - AI Systems Architect

Abu Dhabi, UAE

- Designed and deployed a **LangChain and LangGraph-powered multi-agent system** automating Wealthy's core business workflows including **KYC verification, portfolio analysis, and customer support**, cutting overall manual processing time by 60%.
- Built a production-grade **Retrieval-Augmented Generation (RAG) pipeline** for contextual document understanding and personalized financial insights, integrating **Pinecone and FAISS** for hybrid vector search and fast retrieval.
- Developed modular agent orchestration workflows using **LangGraph** with memory and state management for complex reasoning and multi-turn task completion.
- Integrated AI agents into event-driven microservices using **Pub/Sub and Cloud Run**, enabling dynamic response to real-time user actions and financial events.
- Established a cloud-native AI service layer on GCP with robust observability, tracing, and versioning pipelines for AI experiments and model iterations.
- Collaborated cross-functionally to define **AI strategy, evaluation metrics, and safety guardrails**, ensuring high reliability and compliance across deployed agent systems.

LangChain LangGraph RAG Pipelines Vector DB Google ADK FAISS Pinecone SemanticFlow
AI Agents Guardrails Python Google Cloud

WizCommerce

Sep 2022 – Apr 2024

Software Engineer - II

Abu Dhabi, UAE

- Played a key role in building different products and features, **including a SaaS solution for B2B clients**, driving value and success for the organization
- Create an **Elasticsearch engine** as a microservice that is used for indexing the data of the application and also for searching and filtering, and can be used in multiple applications.
- Published multiple javascript libraries** including linting and React components which can be used in all other microservices.
- Ensured 95%+ code coverage through comprehensive unit testing and integration tests for critical use cases.
- Conducted interviews with engineers as part of the recruitment and onboarding process, ensuring the selection of qualified candidates for the development team.

NodeJS React FastAPI TypeScript AWS Unit Testing Elasticsearch SaaS B2B

Workz Group

Sep 2021 – Sep 2022

Software Engineer

Dubai, UAE

- Managed a team of **6 professionals**, supervised client requirements for implementation, and mentored junior developers to facilitate knowledge sharing within the team.
- Built a DevOps pipeline for application deployment using **Kubernetes, Docker, and GitHub actions** achieving a 60% reduction in time spent on manual deployment tasks.
- Achieved over 90% code coverage for tested functionalities and executed End-to-End testing for frontend applications using **Cypress and TypeScript**.

- Enhanced application performance and flexibility through **optimized coding practices and architectural improvements**, resulting in a significant 30% reduction in response time.
- Collaborated **cross-functionally with designers, QA engineers, and product managers** to deliver high-quality software solutions that meet customer requirements, resulting in an exceptional customer satisfaction rating of 4.8 out of 5.

Celery, RabbitMQ

Database Migrations

Caching

JWT, OAuth

Unit Testing

SQLAlchemy

Seva Development

Nov 2019 – Sep 2021

Software Engineer

Kathmandu, Nepal

- Developed a back-end engine using **TinkerPop, Gremlin, and Nodejs** to process large stream data, integrate with **Amazon Neptune**, and also build individual services for data profiling using Python.
- Performed integration testing using **Cypress and TypeScript** to ensure proper application performance.
- Played a key role as a full-stack developer in a microservice-based architecture deployed on AWS, utilizing **Neptune, Kinesis, RDS, EC2, Lambda, S3, ECR, and ECS**.
- Teamed up with a cross-functional group to create a test management tool, streamlining test case management and reducing test case creation time by 50%, thereby improving overall testing effectiveness.
- Implemented React and Nodejs** technologies to develop 7+ innovative features and address complex issues, resulting in elevated user experience and overall system performance.
- Received the **Team Collaboration Excellence Award**, recognized for exceptional collaboration and contributions among 50+ employees.

Nodejs

Reactjs

AWS

Neptune

Kinesis

Lambda

Cypress

Jmeter

Microservices

Postgresql

Eversoft

Nov 2017 – Nov 2019

Startup Founder

Pokhara, Nepal

- Led the successful **delivery of over 10+ different client projects**, surpassing expectations and achieving a high level of client satisfaction.
- Led a team in building a comprehensive E-Commerce website using **React and Node (Express)**, ensuring timely delivery and high customer satisfaction.
- Implemented automation tools, including Jenkins, AWS CodeBuild, and Docker**, reducing manual effort by 50% and improving development speed, resulting in faster delivery of software updates.
- Engaged closely with clients, delivering tailored software solutions that yielded significant cost savings and improved operational efficiency by 3 times.

Startup

Express

ECommerce

Team Management

Microservices

Docker

CircleCI

Technical Skills

Languages: Python, Javascript

Frameworks: Flask, FastAPI, Django, Nodejs, Reactjs

AI Technologies: OpenAI, Gemini, Google ADK, Langchain, MCP, A2A

Cloud Technologies: Lambda, EC2, S3, Neptune, Kinesis SES, SQS, Secret Manager, ECS, ECR, R2

Other Technologies: Linux, Jenkins, GitHub, Pytest, Cypress

Education

Pokhara University

Jan. 2015 – Jan. 2019

Bachelor of Computer Application

Pokhara, Nepal