

Prashant Ghimire

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SUMMARY

Senior Software Engineer with a backend-focused full-stack background and a decade of experience building cloud-native systems in FinTech and IoT. Proficient in Java, Python, Angular, React, and GenAI tools. 2x AWS Certified Solutions Architect bringing strong ownership and a passion for intelligent, real-time distributed systems and engineering innovation.

EXPERIENCE

Senior Software Engineer – Team Lead, Capital One | Plano, TX

July 2021 – Present

- Led the design and launch of SmartQueues, a microservice-based backend and micro frontend (MFE) architecture for prioritizing auto-loan applications, built with Java (Spring Boot), Python (Flask, Pandas), and Angular. **Improved API response time by 20% and contributed to a \$10M annual revenue increase** through faster, smarter loan decisions.
- Led an org-wide migration to serverless architecture using AWS Fargate and Lambda; **achieved 100% service migration and cut infrastructure costs by 40%** through instance optimization and ARM-based CPU selection.
- Built a high-performance, multithreaded Kafka event prioritization system using Java (Spring Boot) and AWS DynamoDB to process potential fraud events through rule-based actions – such as customer alerts, account holds, or closures – **cutting latency from hours to seconds and enabling real-time fraud mitigation**.
- Pioneered a testing framework for asynchronous services using Java (Spring Boot), AWS DynamoDB, Kafka, and SQS, filling a critical gap with no existing standard. **Enabled teams to reliably test async workflows for the first time**; showcased at the Software Engineering conference.
- Drove a cultural shift toward engineering excellence** through live code reviews and team office hours, improving collaboration, reducing production issues, and accelerating delivery.
- Mentored engineers** to elevate technical capabilities, improve code quality, deployment stability, and team delivery.

Software Engineer, Capital One | Plano, TX

May 2019 – July 2021

- Designed and built Anansi, a web crawler that fixed broken Capital One integrations across 10,000+ dealership websites, **reducing manual effort and improving customer experience**. Built with Java (Spring Boot), React, and AWS Lambda.

Co-Founder & CTO, Zurelly | Remote

Jan 2020 – April 2021

- Built and launched Zodi, a culturally tailored dating app** for the South Asian market with Firebase-powered chat and profile matching, using Flutter, NestJS, and MongoDB. **Acquired 1,000+ users via outreach and word-of-mouth**.

Software Engineer, Leviton | New Orleans, LA

May 2016 – May 2019

- Developed the My Leviton mobile app and cloud services using Angular, NodeJS, TypeScript, and AWS IoT, **enabling real-time IoT device control and automation, and improving user experience and system efficiency**.
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PROJECTS & ACHIEVEMENTS

Project: AI chatbot to help patients understand prescriptions; GeorgiaTech MSCS; **Python, FHIR, LangChain, OpenAI**.

Patent: Securing Structured Data Records for External Parties, US 20240220655 A1.

Awards: Harold Leviton Innovation Award; Ranked in the top 8% contributors on StackOverflow.

SKILLS

Languages: Java (17), Python, Go, JavaScript, TypeScript, HTML, CSS, Dart, SQL, GraphQL

Frameworks & Libraries: Spring Boot, Flask, Django, FastAPI, NestJS, Angular, React, LangChain, Pandas, Numpy

Databases: PostgreSQL, MySQL, Oracle, Snowflake, Aurora, DynamoDB, MongoDB, Cassandra, Redis, Neptune

AWS Services: EC2, ECS, EKS, Fargate, Lambda, RDS, S3, SQS, SNS, Route 53, CloudWatch, IAM, SageMaker

Software & Tools: Kafka, Docker, Kubernetes, Terraform, JUnit, Cypress, Splunk, New Relic, PagerDuty, OpenAI, LLMs

EDUCATION

Georgia Institute of Technology – M.S. Computer Science, Interactive Intelligence

Expected 2026

Southeastern Louisiana University – B.S. Computer Science

2016