

INDRANEEL PARTHASARATHY

California, United States

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Summary

Full-stack Software Engineer with 3+ years of experience developing cloud-native microservices, real-time web apps, and LLM-powered platforms. Adept at designing performant APIs, automating deployments with AWS and Kubernetes, and optimizing backend systems that handle **50K+ concurrent sessions**.

Professional Experience

- PNC** | Sep 2024 – Current
Software Engineer | California, United States
- Built authentication microservices (Java 11, Spring Boot, OAuth 2.0, JWT) that securely supported **50K+ concurrent sessions** across enterprise banking apps, delivering high availability with zero downtime during peak loads.
 - Delivered **real-time online banking and transaction dashboards** using React.js, Redux, and TypeScript, enabling instant balance visibility, faster account updates, and improved customer engagement.
 - Enhanced systems processing **25K+ daily transactions** by optimizing PostgreSQL queries and Kafka pipelines, improving response time and ensuring stability under regulatory requirements.
 - Developed a fraud-detection service with Spring Boot, Kafka, and Redis that **reduced false alerts by 45 %**, increasing detection accuracy and improving investigator productivity in financial-crime prevention.
 - Streamlined CI/CD pipelines with Jenkins, Docker, Kubernetes, and Terraform, cutting release cycles from 3 hours to **25 minutes** while guaranteeing uninterrupted production operations.
- Bounteous** | Apr 2021 – Aug 2023
Software Engineer | Remote
- Client:** ftd.com
- Improved Core Web Vitals by modernizing the **ftd.com e-commerce platform** with Angular and Spring Boot, achieving a **35 % faster page load time** that boosted SEO rankings and conversions.
 - Built a CQRS-based Pricing Engine with React.js, Spring Boot, and MongoDB, eliminating **20+ hours per week** of manual catalog updates while ensuring accuracy across thousands of products.
 - Implemented monitoring and observability with Azure App Insights and Elasticsearch dashboards, increasing system visibility, reducing incident detection time, and strengthening production resilience.
- Client:** Kroger
- Designed high-throughput REST APIs with Spring Boot and PostgreSQL powering **order management for millions of customers**, supporting seasonal peaks and ensuring seamless retail operations.
 - Improved database performance with SQL tuning, indexing, and Redis caching, reducing query response times by **50 %** under high concurrency and improving reliability during high-volume events.
 - Integrated Stripe and PayPal payment gateways with Spring Boot APIs, ensuring PCI-DSS compliance, reducing cart abandonment, and improving overall checkout reliability.

Technical Skills

Languages: Java, Python, C, C++, JavaScript, TypeScript, SQL

Backend: Spring Boot, Spring Security, Hibernate, JPA, REST APIs, GraphQL, WebSockets, Microservices, Kafka, RabbitMQ

Frontend: React.js, Angular, Next.js, Redux, Tailwind CSS, HTML, CSS

Databases: PostgreSQL, MySQL, MongoDB, Redis, Cassandra

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Azure, Docker, Kubernetes, Terraform, Jenkins, Git

Testing: JUnit, Mockito, Cypress, Selenium, Jest

Methodologies & Practices: Agile (Scrum, SDLC), Design Patterns, API Security, Code Standards, Logging (SLF4J), SonarQube

Other: Pagination, Performance Optimization, Continuous Integration / Continuous Deployment Pipelines, Reactive Programming

Education

- California State University – East Bay** | Aug 2023 – May 2025
Master of Science in Computer Science, GPA: 3.9 | Hayward, CA
- Coursework:** Algorithms, OOD, Cloud Computing, Machine Learning, Operating Systems, System Design

Projects

LLM-Driven AWS Code Automation System | React, AWS Lambda, Llama 3.2

- Engineered an AI-powered automation platform that generated and deployed infrastructure code on AWS using LLM inference, cutting manual setup time by 50% and processing 1,000+ developer requests.

AI-Powered Cooking Assistant | React, AWS, OpenAI API, Computer Vision

- Created an AI cooking assistant that produced personalized recipes from food photos, serving 500+ users and achieving over 90% ingredient-match accuracy through image recognition and LLM reasoning.

Employee Authentication System | React, AWS Rekognition, Lambda, DynamoDB

- Built a serverless facial-recognition login system authenticating 1,100+ employees through AWS Rekognition and Lambda, achieving 95% validation accuracy and reducing login failures by 40%.

Certifications

AWS Certified Solutions Architect – Associate