OJASAVA PARAS

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EXPERIENCE

Senior Software Engineer, Core Infrastructure | Audible (Amazon), Newark, NJ   Aug 2022 - Present
- Led multi-region AWS service migration for the EU marketplace for core Audible checkout services, launching services in Spain (ZAZ) and Germany (FRA). Cut infra costs **40%**, improved availability to **99.95%** western and southern Europe.
- Designed and shipped org-wide Load Testing integration (Hydra) into CI/CD using AWS CDK. Enabled **50+ services** to run automated load tests, reducing pre-release testing time by **60%** and validating P99 latency under **200ms**.
- Leveraged GenAI (Amazon Bedrock) to auto-generate load test scenarios for the Hydra pipeline, reducing manual test authoring time and improving scenario coverage across services.
- Owned end-to-end implementation for Transaction Generator (Native AWS). Automated infra setup for **20+ teams** (**100+ engineers**). Cut onboarding from **2 weeks to 4 hours**. Critical for GameDay simulations (Prime Day scale: **5M+ req/min**).
- Architected SAST pipeline (Fortify) for TypeScript services, driving design with security team. Expanded vulnerability scanning, reducing security review cycles by **35%** and covering **95%** Audible services.
- Integrated Audible QA Testing framework (Needle) with a new AWS based Integration/Regression Testing tool (Luminos), enabling automated integration and load tests via Hydra. Reduced manual QA cycles by **40%**.
- Mentored a new engineer to first production deploy in **3 weeks**. On-call for critical services, triaging and resolving customer-impacting incidents.

  Stack: AWS CDK, Fargate, Lambda, DynamoDB, CloudWatch, Hydra, Fortify, Luminos, Generative AI.

Software Engineer, Platform | Zyyo, New York, NY   Feb 2021 - Jul 2022
- Rearchitected monolith to microservices, containerizing **8+ services** with Docker. Set up CI/CD with Jenkins, staging on AWS EC2, NGINX for routing. Reduced deployment time from **2 hours to 18 minutes**.
- Created Zyyo Admin, a cluster of microservices to manage data and users across the platform, enabling faster data imports/exports for internal teams.
- Developed data automation system for investment data imports (React, Express). Migrated database from PostgreSQL to MongoDB, cut page load time by **60% (3s to 1.2s)**.
- Implemented autonomous email notification service using SendGrid API integrated with Express backend, handling **10k+** transactional emails/month.
- Mentored summer intern through full project lifecycle, from requirements to production deployment.

  Stack: Node.js, React, Express, Docker, Jenkins, PostgreSQL, MongoDB, AWS EC2, NGINX.

Software Engineer, Data | Moodbit, New York, NY   Jun 2020 - Jan 2021
- Built Teams apps for Moodbit on React/NodeJS, owned full deployment lifecycle on Glitch for employee wellness platform serving **5K+ users**.
- Developed NLP Sentiment Analysis model on AWS to analyze employee feedback and wellness insights for HR Teams.
- Designed and maintained SQL database schema for user analytics using word-cloud visualization for sentiment trends.

  Stack: React, Node.js, AWS SageMaker, SQL, Microsoft Teams API.

PROJECTS

Sentinel AI - Multi-agent system for automated incident analysis using Claude API. Three-agent pipeline (Triage, Research, Remediation) with RAG-powered runbook search. Deployed on AWS ECS Fargate via CDK.
Deep Bridge Bidding - Reinforcement learning model trained on 1M+ gameplay samples for optimal Bridge card game bidding. Achieved 83% prediction accuracy using policy gradient methods.

SKILLS

Languages: Python, TypeScript, Java, Go, C/C++, SQL, GraphQL
Cloud & Infra: AWS (Lambda, Fargate, ECS, CDK, DynamoDB, Aurora), GCP, Kafka, Spark, Docker, Kubernetes
Frameworks & AI: Node.js, React, FastAPI, RAG, AI Agents, MCP, Claude API, Pydantic, ChromaDB, Streamlit
Data & Monitoring: PostgreSQL, MongoDB, Elasticsearch, Prometheus, Grafana, CloudWatch, Hydra, Fortify, Jest

EDUCATION

Master of Science in Computer Science, New York University, New York, NY

Bachelor of Technology in Computer Science, Vellore Institute of Technology, Chennai, India