Amrut Savadatti

774-525-7497 | Open to relocation | amrutsavadatticareers@gmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

Worcester Polytechnic Institute | USA

Masters of Science in Computer Science

University of Mumbai | India

- Bachelor of Engineering in Computer Engineering

Aug 2017 – Jun 2021

Aug 2024 - Aug 2026

EXPERIENCE

Web Application Developer | Media.net | Java, Spring Boot, Kafka, Python, ECS, Docker Aug 2021 - May 2024

- Designed and developed a push-based Keyword Launcher API using Kafka, Java, and MongoDB to automate keyword due diligence with asynchronous API calls and compliance validation. Reduced keyword processing latency by 35% and enabled real-time analytics for faster decision-making.
- Designed a centralized, configurable Data-Processor pipeline to ingest data from APIs in various forms and ensure consistency across API replicas and support downstream processing. Improved data throughput by 60%, reduced redundancy by 40% enabling ROAS tracking, cost-revenue stitching, and real-time logging for 30+ APIs.
- Built and maintained the core Arbitrage Plugin Backend supporting 400+ revenue-generating websites. Enabled dynamic configuration of ad providers, website templates, A/B testing ratios, and user accounts, while reliably firing keyword click pixels to optimize monetization across ad networks.
- Built a centralized API Proxy Service with secret key handling, Dockerized deployments, and response caching to streamline third-party API usage. Improved availability and cut redundant calls, yielding a 25% cost saving.
- Built a centralized **JWT-based authentication service** and a **Role Based Access Control (RBAC)** system to secure and standardize access across **30+ internal APIs**, improving **security consistency** and reducing integration effort for new services.
- Contributed to annual product upscaling and load testing using K6 and Grafana to handle seasonal traffic spikes. Improved system reliability by resolving bottlenecks through ELK log analysis and Sentry alert triaging.

Software Developer Intern | Bhaktivedanta Hospital | Java, Android, MsSql

Dec 2019 – Jan 2020

- Led the design and implementation of a **QR-based delivery verification system** to address inefficiencies in pharmacy logistics, ensuring secure and accurate handovers.
- Developed Java-based Android app for order placement and delivery tracking, backed by MSSQL, reducing delivery delays by 37% and errors by 40%; created HLDs using Draw.io to align cross-functional teams.

Software Developer | Gopalak Milk | Flutter, Dart, Next.JS, Strapi

Jul 2020 - Jun 2021

- Developed a **subscription-based milk delivery** system for a client, including a **Strapi** backend with dashboards for product management and secure payments via **Razorpay**.
- Built a **cross-platform Flutter** app cataloging all products with extensive features **increasing user retention by 25%** and **reducing** manual tracking of exceptions and rejected deliveries **by 57%**.

PROJECTS

Operating System Fundamentals | C, System Calls, File I/O

Mar 2025 - Apr 2025

- Developed Linux-style CLI tools (wcat, wgrep, wzip) and a custom shell (wshell) supporting piping, redirection, and background jobs, to gain hands-on experience with process management and system calls.
- Implemented a **CPU scheduling simulator** (FIFO, SJF, Round Robin) and a custom **dynamic memory allocator** (goatmalloc) using mmap, chunk headers, and coalescing to explore low-level memory management.
- Designed these projects to deepen my understanding of operating systems, applying core OS concepts like pointer arithmetic, memory arenas, and process scheduling through real-world C implementations.

Auction House | Next.js, TypeScript, AWS

Sep 2024 - Nov 2024

- Built a scalable auction platform using **AWS** services (S3, RDS, Lambda) following **EBC architecture** to support modular and maintainable design.
- Implemented **role-based authentication** for four user types and developed a responsive UI using **Next.js** and **Tailwind CSS**, optimizing client-side rendering for a seamless experience.
- Applied system design principles to ensure loosely coupled components and low tech-debt code, enhancing long-term scalability and deepening architectural proficiency.

TECHNICAL SKILLS

Languages: C++, Java, Python, Dart, PHP, JavaScript, HTML/CSS, SQL,Shell Scripting

Frameworks: REST API, Spring Boot, Django, Flask, React, Flutter, Android, Laravel, Lumen, Next. js, ChatGPT-3.5/4, Cursor IDE,

Prompt Engineering, LangChain

Databases: MongoDB, MySQL, MSSQL, Firebase, Druid, Redis

DevOps/Tools: Docker, Kubernetes, AWS, Grafana, Kafka, Git, CI/CD

Fundamentals: Data Structures, System design, Object Oriented Programming Data Formats: JSON, XML, BSON, AVRO