

# Amrut Savadatti

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## EDUCATION

**Worcester Polytechnic Institute** | *USA*

– Masters of Science in Computer Science

**Aug 2024 – Aug 2026**

**University of Mumbai** | *India*

– Bachelor of Engineering in Computer Engineering

**Aug 2017 – Jun 2021**

## 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 design and delivery of a **QR-based delivery verification system**, reducing pharmacy logistics errors by **40%** and delays by **37%**.
- Authored architecture diagrams and technical documentation to align cross-functional stakeholders.

## PROJECTS

**Automation for MME URPS** | *n8n, Qualtrics API, Microsoft API, Slack Webhooks, OpenAI*

**Jun 2025 – July 2025**

- Architected an end-to-end **judge-participant outreach platform** in **n8n**, automating 800+ personalized emails for WPI's MME URPS and cutting manual coordination time by **70%**.
- Integrated **Qualtrics survey data** with Microsoft 365 and Slack via webhooks to **log responses, trigger follow-ups**, and push real-time status notifications to the events team.
- Implemented **human-in-the-loop LLM actions**: OpenAI function calls draft judge-response emails, routed to staff for one-click approval before sending, improving reply accuracy to **99%** while preserving compliance.
- Published a live **analytics dashboard** (participants, judge commitments, completion rates) with n8n cron jobs, enabling data-driven decisions on event day.

**RAG-Powered Portfolio Chatbot** | *FastAPI, LangChain, OpenAI, ChromaDB, n8n*

**July 2025 – July 2025**

- Built a **Retrieval-Augmented Generation (RAG)** chatbot that greets recruiters on my portfolio site, answers questions about my **experience, projects, and aspirations**.
- Engineered a **vector-store pipeline** (Python + LangChain + ChromaDB) to chunk documents, compute embeddings, and serve them via a FastAPI REST endpoint consumed by front end.
- Captured visitor emails inside the chat UI and invoked an n8n workflow running on a **home server** to send tailored follow-up packets (resume, Calendly link), boosting recruiter engagement by **38%**.
- Containerized the entire stack with Docker Compose and added GitHub Actions CI/CD, enabling one-command redeloys and sub-5-minute rollback capability.

**Auction House** | *React, 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, RAG, LangChain

**Databases:** MongoDB, MySQL, MSSQL, Druid, Redis, ChromaDB

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

**Fundamentals:** Data Structures, System design, Object Oriented Programming

**Data Formats:** JSON, XML, BSON, AVRO