

# Amrut Savadatti

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## EXPERIENCE

### Worcester Polytechnic Institute - MME | AI Automation Engineer

May 2025 - Jul 2025

- Architected and deployed a no-code automation platform in n8n, streamlining judge-participant outreach by sending over 800 personalized emails annually and reducing coordination time by 70%, with programmed follow-ups for recipients who missed embedded Qualtrics surveys.
- Integrated OpenAI LLMs to auto-detect and respond to FAQs in emails, and built logic to identify unanswered questions and send context-aware follow-ups, improving response quality and engagement.
- Designed a human-in-the-loop escalation system that filters unresolvable queries and routes them to a Slack channel for manual intervention, ensuring no communication gaps.
- Automated extraction of participant registration data and routed lab access/resource requests to appropriate faculty or staff based on context.
- Automated the annual creation of a Book of Abstracts to showcase student projects by programmatically generating formatted documents from structured data using Python, reducing manual formatting time to near zero.
- Streamlined judge evaluation workflows by automating the creation of Google Forms with dynamic project assignments, scoring rubrics, and note taking sections via Python and Google APIs, eliminating repetitive manual setup.

### Media.net | Web Application Product Developer

Aug 2021 - May 2024

- Designed and developed a push-based Keyword Launcher API in Java + Spring boot to automate keyword checks, cutting latency by 35% and enabling real-time compliance and analytics.
- Maintained and augmented a centralised data pipeline for 30+ APIs, boosting throughput by 60% and enabling real-time ROAS tracking, cost-revenue stitching, and consistent downstream processing.
- Built core Arbitrage Plugin Backend for 400+ sites, enabling dynamic Ad and website configs, A/B testing, and Ad click tracking to optimise monetization across networks.
- Designed and built a centralized API Proxy Service with secret key handling, Dockerized deployments, and response caching to streamline third-party API usage leading to Improved availability and cut redundant calls, yielding a 25% cost saving.
- Developed a centralized JWT auth and RBAC system using Spring Security to secure 30+ APIs, enhancing security consistency and streamlining new service integration.
- 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.

### Bhaktivedanta | Software Developer Intern

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.

## TECHNICAL SKILLS

- **Developer skills:** Java, PHP, Python, JavaScript, SQL, Unix, Node.js, MongoDB, MySQL, Redis, ChromaDB
- **Frameworks:** REST API, Spring Boot, Laravel, Lumen, Next.js, React.js, N8N, Make.com, OpenAi, Cursor IDE, Prompt Engineering, RAG, LangChain
- **DevOps/Tools:** Docker, Kubernetes, AWS, Grafana, Kafka, Git, CI/CD

## PROJECTS

### AI Portfolio Chatbot

Jul 2025 - Jul 2025

- Developed a Retrieval-Augmented Generation (RAG) based AI assistant using LangChain, ChromaDB, FastAPI, and OpenAI APIs to answer recruiter-specific queries about my background, projects, and skills.
- Vibe-coded and fine-tuned the frontend experience of the portfolio website for an engaging user interaction; integrated email capture and Calendly scheduling to streamline recruiter follow-ups.
- Containerized and deployed the full-stack application using Docker Compose on AWS EC2, with per-user rate limiting to prevent API abuse and ensure reliable performance.

### Auction House | Worcester Polytechnic Institute

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.

## EDUCATION

### Worcester Polytechnic Institute | Masters of Science, Computer Science (GPA: 4)

Aug 2024 - Aug 2026

### University of Mumbai | Bachelor of Engineering, Computer Engineering (GPA: 3.3)

Aug 2017 - Jun 2021