Yash Patodkar

Santa Clara, CA | patodkaryash@gmail.com | 669-343-4851 | linkedin.com/yash-patodkar | github.com/ypatodkar | Portfolio

SUMMARY

Adaptable and intuitive Full-Stack Software Engineer with 2+ years of experience building and deploying AI-powered applications. Proficient in end-to-end development from frontends to scalable serverless backends, with a focus on performance and user experience.

EDUCATION

Masters of Science in Computer Science and Engineering | Santa Clara University   Sep 2024 - Present | Santa Clara, CA

Post-Graduation Diploma in Advanced Computing | CDAC ACTS   Sep 2021 - May 2022 | Pune, India

Bachelor of Technology | Vishwakarma Institute of Technology   Aug 2017 - May 2021 | Pune, India

WORK EXPERIENCE

Fortinet Technologies   May 2022 - Jun 2024

Software Engineer I   Pune, India

- Led the design and development for FortiSOAR AI Advisor, recognized by Yahoo Finance as a contributor to Fortinet's strong market performance.
- Fine-tuned OpenAI model with LoRA on playbook data, enabling playbook creation and cutting manual effort by over 50%.
- Reduced alert Mean Time to Detect (MTTD) by 50% across multi-instance SOCs by developing a Global Visibility Dashboard, a key feature that secured a major enterprise client.
- Collaborated with UX and QA to design, build, and ship 15+ data visualization widgets for the UI library in Angular, CSS.
- Built Python API connectors for Google Drive, OpenAI, and Microsoft, expanding the FortiSOAR connector catalog by 10%.
- Resolved 60+ defects across frontend (AngularJS), backend (Spring Boot), and messaging (RabbitMQ) layers.

PROJECTS

Re-Mind AI | *Flask, ReactJS, Mistral AI, MongoDb NoSQL* | Youtube Demo

- Developed a mental health tracker that utilizes the Mistral LLM to analyze user journal entries and identify cognitive distortions.
- Converted insights from five psychiatric books into vector embeddings stored in ChromaDB for use in (RAG).
- Optimized for offline use by a quantized Mistral model, achieving 95% output quality with ChatGPT on a local machine

Sports Analytics Platform | *React, TypeScript, AWS Lambda, API Gateway, Gemini AI, Chart.js* | Live Demo

- Created a full-stack sports statistics app using Gemini and Search Grounding for 95% accurate stats across 5+ sports, with custom visualizations.
- Deployed a serverless backend (Lambda/API Gateway) that handles 1,000+ monthly requests with less than 2 seconds of latency.
- Implemented CI/CD via AWS Amplify for 99.9% uptime, ensuring global HTTPS access for all users.

Book A Show | *Java, Spring Boot, ReactJS, MySQL, Microservices, Docker*

- Designed a distributed, microservices-based ticketing platform designed to handle 10,000+ concurrent users with 99.9% uptime.
- Implemented Spring Security and JWT, reducing 100% unauthorized access vulnerabilities and enabling scalable, secure, and rapid deployment via Docker.
- Integrated Apache Kafka for asynchronous communication between services, ensuring reliable booking workflows, fault tolerance, and real-time updates.

GitHub PR Analyzer | *NVIDIA-Nemotron, LangChain, RAG, Vector Databases (FAISS), NLP, GitHub API*

- Engineered a full-stack PR management system using Flask, React, and GitHub API for code reviews, reduced manual review effort by 60% and 40% faster overall review turnaround..
- Integrated LLM-based code review automation, enabling AI-generated insights with 85% accuracy on pull request feedback.
- Created a continuous learning loop that improved AI feedback quality by 20% over iterative retraining cycles.

ACHIEVEMENTS AND PUBLICATIONS

- 1st Place – Hack for Humanity (2024): *Re-Mind AI*. Devpost
- Recognized by Adobe for an open source contribution; invited for an exclusive HQ tour.
- 99.2 percentile (Rank 151/20,000+) in national CDAC PG-DAC entrance exam.
- Authored a research paper on Inter-Satellite communication in Satellite Communications, under the guidance of Dr. Moataghed.

TECHNICAL SKILLS

- Programming Languages: Python, Java, JavaScript/TypeScript, C++, MySQL, PostgreSQL, MongoDB
- Frameworks & Libraries: Spring Boot, React, AngularJS, Node.js, Flask, Hibernate
- AI/ML & Data: OpenAI GPT, RAG, Vector Databases (ChromaDB, FAISS), LLM Fine-tuning, Mistral, LangChain, NLP
- Tools & Platforms: Docker, AWS, Apache Kafka, Jenkins, Git, JIRA, Linux, Postman