

Yash Patodkar

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EDUCATION

Santa Clara University | GPA: 3.67/4.0

Sep 2024 - May 2026 | Santa Clara, USA

Masters – Computer Science and Engineering

Relevant Coursework: Distributed Systems, Computational Creativity, Linear Programming, Design and Analysis of Algorithms.

CDAC ACTS | Grade A

Sep 2021 - May 2022 | Pune, India

PG-DAC in Advanced Computing

Relevant Coursework: Java (OOP, DSA), Web Technologies, Database Systems, .NET, Software Engineering, OS & Shell Scripting.

Vishwakarma Institute of Technology

Aug 2017 - Jun 2021 | Pune, India

Bachelor of Technology

Relevant Coursework: Linear Algebra, Numerical Optimization, Simulation & Modeling

WORK EXPERIENCE

Fortinet Technologies

May 2022 - Jun 2024 | Pune, India

Software Development Engineer

- Reduced Alert Mean Time to Detect (MTTD) by **50%** across multi-instance SOCs by developing a [Global Visibility Dashboard](#) using AngularJS, improving analyst response with live alert correlation and centralized KPIs.
- Expanded the core FortiSOAR UI library by creating **15+ reusable UI components** and data visualization **widgets** (e.g., [Funnel Charts](#), [Top-X](#)) in AngularJS including guided workflows to help users adopt the widgets effectively.
- Built an [AI Assistant Bot](#) integrated with GPT-4 function calling using Python and Angular, enabling users to generate workflows and query modules through natural language.
- Optimized natural language understanding and generation for FortiSOAR workflows by **fine-tuning a GPT-3 model** using adapter-based methods (LoRA) with domain-specific playbook data, leading to context-aware, low-latency, and cost-efficient playbook creation via an integrated AI assistant, and **reducing manual effort by over 50%**.
- Built **Python API connectors** for services like Google Drive, OpenAI, and Microsoft Exchange, enhancing system integration and adding 10% more entries to the FortiSOAR connector catalog.
- Resolved 100+ bugs across **AngularJS UI**, **Spring Boot services**, and key **microservices (Notifier, Gateways)**, reducing customer-reported issues by 35% and improving release stability.

PROJECTS

Re-Mind AI - Flask, ReactJS, Mistral AI, MongoDB NoSQL : [Youtube Demo](#)

- Built a full-stack mental health tracker (Flask + ReactJS) that uses the Mistral LLM to detect and label cognitive distortions in user journal entries Instantaneous.
- Converted insights from** five authoritative psychiatric books into **vector embeddings stored in ChromaDB** for use in real-time retrieval-augmented generation (RAG).
- Designed the system for fully offline use, guaranteeing **privacy** without any cloud dependency.

System Design Project - Book A Show | Java, Spring Boot, ReactJS, MySQL | [Github](#)

- Developed a full-stack ticket booking platform using **Spring Boot (Java), ReactJS, and MySQL**, simulating real-world workflows like seat selection, user management, and secure ticket booking.
- Architected the backend using layered design (**Controllers, Services, DAOs, DTOs**) with role-based access control via **Spring Security**.
- Built and consumed **RESTful APIs**, applied relational schema design, and handled secure user data with authentication and session management.
- Containerized the backend and frontend services with Docker, enabling isolated development, simplified testing, and rapid deployment on cloud.

Presentation Suite - Hackathon Project | Node - JS | [Devpost](#)

- Created an **Adobe Express add-on** that automatically generates full PowerPoint presentations from user prompts, using Gemini's APIs.
- Implemented real-time slide generation from topic prompts (e.g., “Animal Kingdom”) using Gemini’s text API, followed by slide deck creation with pre-filled content and titles.
- Engineered the frontend with React, modular component structure, and Adobe Express’s extension API to deliver seamless UX.
- Reduced presentation creation time from **hours to under 5 minutes**, increasing productivity for hackathon users.

Prompt-to-Reel Pipeline | Python, Gemini, ElevenLabs, MoviePy

- Developed a content creation pipeline that transforms a single user prompt into a short, engaging video clip suitable for platforms like Instagram Reels and TikTok, reducing a workflow that would take a user **7-8 hours to just a few minutes**.
- Automated Scriptwriting** and leveraged the Google Gemini API to analyze a user's topic and generate multiple distinct script options, each structured with dialogue and visual cues.

ACHIEVEMENTS AND PUBLICATIONS

- 1st Place – Hack for Humanity (2024):** *Re-Mind AI*, a mental health assistant leveraging LLMs to identify cognitive distortions and provide real-time feedback. [Devpost](#)
- Recognized by Adobe for delivering insightful technical and user-centric feedback on an AI-powered Adobe Express add-on, and selected for an exclusive **Adobe HQ tour**.
- 99.2 percentile** (Rank 151/20,000+) in national CDAC PG-DAC entrance exam.
- Awarded **Best Undergraduate Project** out of **200+ submissions** for building a fully functional **automatic indicator system** for two-wheelers.
- Authored a technical article on NP-hard challenges faced in Inter-Satellite link optimization and **dynamic routing in Satellite Communications**, under the guidance of Dr. Keyvan Moataghed.

VOLUNTEERING AND LEADERSHIP

St. Ann’s School | High School Teacher

Jun 2024 - Aug 2024 | Beed, India

- Designed and delivered a comprehensive curriculum on Object-Oriented Programming principles to a **class of 50 students**.
- Led to a **30% improvement in average coding assignment scores** and helped 10+ students complete independent mini-projects in Java.

TECHNICAL SKILLS

- Languages: Java, Python, JavaScript, TypeScript, C#, C++, Shell Scripting, HTML, CSS
- Frameworks: Spring Boot, ReactJS, AngularJS
- Databases: MySQL, MongoDB, PostgreSQL
- Developer Tools: Git, Docker, SonarQube, Apache JMeter, CI/CD pipelines, REST APIs
- Design: Object-Oriented Design, Microservices, System Design, Kafka, RabbitMQ, Maven