

Keyur Savalia

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EDUCATION

San Francisco State University Master of Science, Computer Science	May 2026 GPA: 3.71/4.00
Gujarat Technological University Bachelor of Engineering, Computer Engineering	May 2024 GPA: 3.84/4.00

SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), SQL.

Frameworks: React, Next.js, FastAPI, Django (Exposure)

Databases & Tools: PostgreSQL, MySQL, ChromaDB, Pytest, Jest, Jira, Figma

Web & Frontend: Modern Web Technologies, HTML5, CSS3, Tailwind CSS, REST APIs

Cloud & DevOps: AWS (EC2, S3, RDS, CloudWatch), Docker, GitHub Actions, CI/CD Pipelines, Git

EXPERIENCE

Graduate Researcher - (Full-Stack R&D Engineer) San Francisco State University	Aug 2025 – Present San Francisco, CA
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- Architected and deployed a **scalable microservices-based document retrieval system** utilized by 200+ researchers, serving 47,000 academic papers and maintaining a low P95 query latency of 1.8 seconds.
- Engineered a full-stack RAG pipeline using Google Gemini AI and vector embeddings, dramatically **improving retrieval precision from 62% to 89%** through algorithmic optimization and ChromaDB.
- Optimized cloud infrastructure through asynchronous processing and connection pooling, **reducing Postgres query time by 40%** and enabling the system to handle 3x traffic spikes without performance degradation.

Software Engineer Intern (Product Focus) Qrious Tech Team LLP	Jan 2024 – Jun 2024 Ahmedabad, India
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- Designed and **implemented 35+ RESTful API endpoints** (Python/FastAPI) with robust features like JWT authentication and rate limiting, supporting 50,000+ daily requests with 99.8% uptime.
- Delivered a **serverless ETL pipeline** using AWS Lambda and S3 that automated verification of 80,000+ user records daily, **eliminating 40 hrs/week of manual work** and reinforcing data integrity.
- Collaborated with cross-functional teams** of 8 engineers to rapidly troubleshoot production issues, reducing mean time to resolution (MTTR) from 4 hours to 45 minutes through improved monitoring and alerting.
- Optimized the **CI/CD pipeline** with parallelization and caching, decreasing build time from 15 minutes to 3 minutes and facilitating **12+ daily deployments** across environments, demonstrating ability to **ship fast**.

PROJECTS

Homework Grader (AI-powered Grading System) Python, FastAPI, React, JavaScript	Class Project
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- Built a FastAPI service utilizing **Gemini AI** to process 1,000+ submissions with **92% accuracy**, showcasing the ability to leverage Generative AI for operational efficiency, in an **agile environment**.
- Implemented NLP-based real-time feedback and asynchronous task handling, supporting **100+ concurrent grading sessions** under a 500ms response time.

Modern Enterprise Web Platform (Frontend) React, TypeScript, Tailwind CSS	Personal Project
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- Utilized **React.js, TypeScript**, and **TailwindCSS** within a **Next.js** framework to build a **98.7% type-safe**, high-performance web application.
- Developed **12+ reusable modular components** with internationalization support, smooth scrolling (**Lenis**), custom animations (**Framer Motion, GSAP**), and a scalable, modern front-end architecture.