

# Rohan Khatri

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## EDUCATION

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### San Jose State University

December 2026

*B.S. Computer Science*

*GPA: 3.94/4.0*

**Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Systems

## EXPERIENCE

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### California Department of Motor Vehicles

August 2025 – April 2026

*Software Engineer Intern*

*Remote*

- Built an IBM-powered system to group related SNow tickets & automate follow-ups, reducing resolution time by 93%
- Improved backend scalability by engineering Java and Spring Boot microservices, resulting in maintainable services
- Migrated backend services from CDT to AWS EC2 clusters, validating endpoints and modernizing infrastructure
- Engineered GitHub Actions CI/CD workflows for automated PR testing & deployments, improving release reliability
- Developed Splunk dashboards to monitor application health, credential issues, and failures across 10+ services

### Maximus

May 2025 – August 2025

*Software Engineer Intern*

*Rancho Cordova, CA*

- Built a config-driven synthetic document generation pipeline across 10 form types for OCR & ML model training
- Architected an AWS Textract system for JSON key-value extraction with 98% accuracy across 10k+ documents
- Implemented validation & post-processing logic to normalize extracted fields & reduce manual review time by 45%
- Containerized & deployed systems as an AWS Lambda function via S3 JSON triggers, improving throughput by 33%
- Scaled pipeline adoption to 25+ engineers on a daily basis, enabling a 5 hrs/week reduction in manual operations

### AI & Machine Learning @ SJSU

January 2025 – May 2025

*Full-Stack Developer*

*San Jose, CA*

- Led a 7+ member cross-functional team, driving Agile execution across product, engineering & ML workstreams
- Integrated React, FastAPI & ML pipelines for a real-time pose detection platform with interactive user feedback
- Optimized rule-based & PyTorch pipelines to improve inference speed & model responsiveness by 65%
- Presented a live demo to 2000+ attendees, demonstrating reliable CV detection and end-to-end functionality

## PROJECTS

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### PaperLink (CalHacks2025 Runner-Up) | *Next.js, FastAPI, Claude, Lava, Chroma, Fish Audio*

- Built a multimodal end-to-end pipeline using Lava to generate concise arXiv research summaries in under 1s
- Integrated Fish Audio TTS for concurrent audio playback and synchronous text highlighting for vision-impaired users
- Optimized MiniLM-Chroma vectoring with SQLite caching, reducing LLM calls 45% and enabling instant reloads

### EVA (Empathetic Voice Assistant) | *Python, FastAPI, Whisper, HuggingFace, Groq, ElevenLabs*

- Developed a real-time voice-to-voice AI coaching platform for guided self-reflection and supportive guidance
- Engineered a FastAPI backend leveraging Whisper + FFmpeg for speech-to-text, HuggingFace Transformers for emotion classification, and Groq LLMs for context-aware responses, achieving 98%+ transcription accuracy
- Automated text-to-speech synthesis with ElevenLabs API for adaptive, natural audio responses in live conversations

### ZeroFootprint | *React, FastAPI, Gmail API, PostgreSQL, Redis, Docker*

- Built an MCP-driven Gmail API pipeline to scan inboxes and draft privacy requests, minimizing user data exposure
- Implemented Redis job queues and a PostgreSQL schema for re-scans, status tracking, and full audit logs

## SKILLS

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**Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML/CSS

**Frameworks & Libraries:** React, Next.js, FastAPI, PyTorch, Scikit-learn, HuggingFace, OpenCV, MediaPipe

**Databases & Platforms:** PostgreSQL, MongoDB, AWS (Certified Cloud Practitioner)

**Tools:** Docker, Git, GitHub Actions, Splunk, VS Code