

Michael Khuri

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EDUCATION

San José State University

Master of Science in Artificial Intelligence

California State University, Fullerton

Bachelor of Science in Computer Science

- Activities: Association for Computing Machinery Club
- Participated in two 24-hour hackathons at CSUF and developed projects
- Dean's List – Cum Laude

Saddleback College

Associate of Arts in Liberal Studies; Minor in Computer Science

- Activities: Society of Asian Scientists & Engineers Club (Director of Social Media)
- Dean's List – Cum Laude

Expected May 2028

San José, CA

May 2024

Fullerton, CA

May 2022

Mission Viejo, CA

EXPERIENCE

Lead Full-Stack Software Engineer (Founding Engineer)

Oct 2025 – Present

Star4ce (Contract)

Remote

- Built a SaaS analytics platform using **Next.js**, **Python Flask**, and **PostgreSQL** with secure auth and reporting
- Built backend APIs for survey scoring, reporting, and dealership analytics
- Implemented secure **JWT authentication** and deployed the system to **Render** and **Vercel**
- Collaborated directly with founders to deliver a production-ready platform

Lead Full-Stack Software Engineer & Operations Analyst

Feb 2025 – Apr 2025

AcuFlow (Contract)

Irvine, CA

- Built a **Python Flask** quoting system generating PDFs, emailing customers, and calculating pricing in real time
- Designed the **Acuflow Quote Generator**, integrating **MySQL** with custom APIs for automated sales workflows
- Deployed backend services on **Heroku** and linked them to the company's GoDaddy-based frontend
- Developed tools for purchase orders, invoices, and sales orders to streamline operations

PROJECTS

Autonomous Lane Detection System | *Python, OpenCV, NumPy*

Oct 2025 – Present

- Built a real-time lane detection pipeline using Canny edges, ROI masking, Hough lines, and curve fitting
- Designed robustness for shadows, dashed lanes, and changing lighting conditions
- Implemented a real-time perception workflow inspired by early autonomous driving systems
- Improved lane stability under shadows, dashed markings, and inconsistent lighting

SmartTuffy | *TypeScript, Next.js, OpenAI API*

Feb 2024 - Feb 2024

- Built an AI assistant that recommends courses using conversational input and prompt engineering
- Implemented a fast, responsive UI with Next.js and serverless API routes
- Completed under 24 hours during a competitive hackathon

SiblingAI | *TypeScript, Next.js, string-similarity*

Nov 2023 – Dec 2023

- Developed a rule-based chatbot using similarity scoring to adapt responses based on user tone and intent
- Designed a conversation engine using the string-similarity library for intent matching
- Built a lightweight chat interface with Next.js for fast interactions

Detection VR | *Unity, C#*

Jan 2023 – Oct 2023

- Created an immersive VR FPS with environmental scanning, physics interactions, and object-detection logic
- Built modular gameplay systems, including movement, weapon logic, and interactable world objects
- Optimized scene performance for smooth VR gameplay

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript

Machine Learning: OpenCV, PyTorch, NumPy, Matplotlib

Web Development: Next.js, Flask, TailwindCSS, RESTful APIs, JWT

Technology: PostgreSQL, MySQL, AWS, Git, OpenAI API