

Michael Khuri

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EDUCATION

San José State University

Master of Science in Artificial Intelligence

Expected May 2028

San José, CA

California State University, Fullerton

Bachelor of Science in Computer Science

May 2024

Fullerton, CA

- 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

May 2022

Mission Viejo, CA

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

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 **Railway** 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