Michael Khuri

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EDUCATION

San José State University Expected May 2028
Master of Science in Artificial Intelligence *San José, CA*

California State University, Fullerton May 2024
Bachelor of Science in Computer Science *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 May 2022
Associate of Arts in Liberal Studies; Minor in Computer Science *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