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

EcoRoad AI | ***Python, PyTorch, Ultralytics YOLO, OpenCV, Flask*** Feb 2026 – Feb 2026

- YOLO (PyTorch) dashcam analysis for eco scoring and driving risk insights
- Built real-time inference pipeline using OpenCV + Flask with optional CUDA acceleration
- Prototyped at SF Hacks 2026 (36-hour hackathon), delivering functional MVP within 12 hours

Autonomous Lane Detection System | ***Python, OpenCV, NumPy*** Oct 2025 – Dec 2025

- 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

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