

MOHAMMED AMIR KHABAZA

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EDUCATION

UC Merced — *B.S in Computer Science & Engineering*

Expected Graduation: May 2026

GPA: 3.83

Relevant Coursework: Data structures, Algorithms, Stats & Probability, Boolean Algebra, and Discrete Mathematics

Affiliations / Honors: College Track East Palo Alto (2022 - Present), CSF Member (2023 - Present), 10,000 Degrees Scholarship (2023 - Present), PCF Scholarship (2023- Present)

SKILLS

Technical: Python, C++, Java, JavaScript/Typescript, Ruby, Go, React, Node, SQL, OOP, Git, Perforce, Verilog, Data Analysis, Linux, Modern Graphics APIs (DirectX, OpenGL, Vulkan), GPU Computing (CUDA, OpenCL), Revision Controlm, Kotlin

Essential Skills: Teamwork, Communication, Active Listening, Problem-Solving, Adaptability, Leadership, Time Management

Certifications: LinkedIn *JavaScript Essential Training, Learning Python, What Is Web3?, Microsoft Cloud for Sustainability*

PROJECTS

EthicScope (Winner, HackDavis 2025)

Founding Team Member

April 2025 - Present

- Built a mobile and web app to **scan product barcodes** and **provide ethical risk insights** with **interactive supply chain maps** and **greenwashing detection**.
- Developed backend with **Flask, MongoDB, Cerebras**, and **Tavily**; frontend using **Next.js, React**, and **Tailwind CSS** for **seamless user experience**.
- **Won Most Creative Hack** for **enabling consumers to make informed, ethical purchasing decisions**.

Devpost: <https://devpost.com/software/ethicscope>

AIVue: Control with Vision (Winner, SF Hacks 2025)

Team Lead & Developer

March 2025 - Present

- Developed a **hands-free computer interface** using eye/head tracking, blink detection, and speech-to-text commands for **accessibility**.
- Built with **Python, MediaPipe, OpenCV, PyQt6, PyAutoGUI, Vosk**, and **MongoDB Atlas**; applied **Kalman filters** and **agentic AI** for smoother, intelligent control.
- **Won Best Use of MongoDB Atlas and Best Startup Pitch**, receiving **\$1000 seed funding** to continue development.

Devpost: <https://devpost.com/software/aivue-control-with-vision>

AI Tumor Detection Machine Learning Model: AI4ALL

Undergraduate Machine Learning Researcher

January 2024 - Present

- Led development of a **VGG-16 model** for tumor detection in brain MRI scans, **enhancing early healthcare detection**.
- Collaborated with interdisciplinary teams to integrate the model into **medical diagnostic systems**, **enhancing diagnostic accuracy and patient outcomes**.
- Used **Python, TensorFlow, Keras, NumPy, Pandas**, and **Scikit-learn** for model development, data preprocessing, and evaluation.

EXPERIENCE

AI4ALL — San Francisco, CA

Undergraduate Research Intern

January 2024 — March 2025

- Developed a predictive model for **medical imaging and brain tumor detection**, **enhancing accuracy through collaboration on machine learning and neural networks**.
- Gained professional **project experience** and expanded networking opportunities while **exploring AI ethics, biases, and fair AI use**.

Webacy — San Francisco, CA

Web3 Security Data Analytics Intern

July 2024 — January 2025

- Analyzed blockchain transaction patterns for fraud detection and **developed machine learning models** for **smart contract risk assessment**.
- Participated in workshops on DeFi security and blockchain vulnerability, gaining insights into Web3 security challenges.