

MOHAMMED AMIR KHAHAZA

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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, and Professional Development: People in an Engineered World

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, VHDL, Linux, Modern Graphics APIs (DirectX, OpenGL, Vulkan), GPU Computing (CUDA, OpenCL), Revision Control, 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

Cal Hacks 11.0 Hackathon: Mantis

Founding Team Member

October 2024

- Developed **Mantis**, a solution to reduce waste at large events by replacing physical flyers with digital signage
- Integrated real-time voice **AI (Google Gemini & Vapi.ai)** and **AR features (AR.js)** for interactive event information
- Built using **MongoDB**, **Node.js**, **Next.js**, and **Python**

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

AI Tumor Detection Machine Learning Model: AI4ALL

Senior Machine Learning Researcher

January 2024

- 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

Personal Projects:

February 2020

Personal Website: amirkhabaza.me

- To-Do List App: <https://amirkhabaza.github.io/To-Do-List/>
- Weather App: <https://amirkhabaza.github.io/Weather-App/>

EXPERIENCE

AI4ALL – San Francisco, CA

Accelerator Participant

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 Extern

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

EPACENTER – East Palo Alto, CA

Multimedia Graphic Design Intern

November 2022 – May 2023

- Created social **media graphics**, **website banners**, and **print materials (flyers, ads)** using **Adobe Photoshop**, **Illustrator**, and **InDesign**, ensuring consistency with branding guidelines
- Promoted **community events by designing posters**, brochures, and **digital content to increase engagement and attendance**