Zakaria Al-Alie

Oakland, CA | (510) 909-0553 | zakaria.al-alie@berkeley.edu | LinkedIn | GitHub | LeetCode

Education

University of California, Berkeley

May 2029

Bachelor of Arts in Data Science

Regents' and Chancellor's Scholarship Recipient

Planned Relevant Coursework: Foundations of Data Science, Program Structures, Data Structures, Calculus II, Multivariable Calculus

Merritt College, Oakland

Dec. 2024

Dual Enrollment

GPA: 3.86/4.0

Relevant Coursework: Applications in Info Security, Secure Coding in JAVA and .NET, Python Application Programming, Introduction to Computer Programming, Introduction to Physics

Projects

xView2 Building Damage Assessment

Apr. 2025 - Present

- Automated building damage assessment from Maxar satellite imagery using PyTorch, processing 850K+ buildings across 15 countries and 6 disaster types
- Created a two-stage deep learning architecture: U-Net building localization and CNN damage classifier
 achieving 84.4% weighted F1 with strong performance on critical categories (92% F1 undamaged, 72%
 F1 destroyed)
- Built CUDA-supported inference with evaluation metrics (precision, recall, confusion matrices) and disaster visualizations to support humanitarian response

BerkeleyBets, CalHacks Hackathon

June 2025

- Built full-stack web application using React, Express.js, and Firebase for sports performance prediction and analytics across NBA, NFL, and MLB
- Developed REST API backend integrated with scikit-learn ML models trained on multi-season player statistics and historical game data
- Implemented real-time player lookup system with fuzzy search capabilities using Fuse.js and dynamic routing with React Router, featuring predictive analytics dashboard with performance tracking

Leadership and Extracurricular Activities

Community Tutor and Volunteer, Oakland Islamic Center Mosque

Sept. 2020 - Present

- Mentored 100+ youth, focusing on academic support and community engagement
- Hosted community events and distributed meals during Ramadan
- Organized cleaning and restoration efforts for mosque facilities

Varsity & Club Soccer, Emery Secondary School & Bay Area United Academy

Aug. 2021 - Aug. 2025

- Captained varsity team to North Coast Section semifinals as center back, developing defensive systems and mentoring teammates to maintain academic eligibility standards
- Created defensive strategies and team cohesion in high-level academy competition at Bay Area United

Skills

Languages: Python, JavaScript, Java

Libraries/Frameworks: PyTorch, scikit-learn, OpenCV, NumPy, pandas, Matplotlib

Web Technologies: React, Express.js, REST APIs, Firebase, HTML, CSS

Tools: Git, Jupyter Notebook, Google Colab, VS Code

Databases: MySQL, NoSQL