Zakaria Al-Alie

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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