

Mateo Alado

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SKILLS

- **Languages:** C/C++, Python, JavaScript, TypeScript, Go, Java, SQL, HTML, CSS, R, Bash
- **Frameworks:** React, Node.js, Tailwind
- **Developer Tools:** Git, Github, AWS, PyTorch, Kubernetes, Supabase, MongoDB, Selenium, Pandas, REST APIs
- **Core CS Concepts:** Software Engineering, DSA, OOP, APIs, Multithreading, AI/ML, Mobile Development

PROFESSIONAL EXPERIENCE

Open Source Freelance Software Engineer

Self Employed

August 2024 - Present

- Developed and contributed to **10+ public repositories** on CodeTriage and additional open source personal projects
- **Decreased development time by ~10%** while maintaining collaborative engineering and Agile development practices amongst a team of **20+ professional freelance engineers**

Teaching Assistant (CS)

California State University, East Bay

August 2025 - Present

- Supported and engaged an on-site class of **50 students** in hands-on instruction in Data Structures and Algorithms through supporting lectures and supplemental learning
- Collaborated with instructors to achieve an **~20% increase in test performance compared to previous semesters**

BootUp Program Mentor (CS)

CSU East Bay MESA

August 2025 - Present

- Provided academic and career focused guidance and enrichment for a cohort of **4 freshman computer science peers**
- Achieved a **20% increase** in MESA professional development and networking seminars amongst new undergraduates within the CSU East Bay Computer Science program

PROJECTS AND ADDITIONAL EXPERIENCE

Login Credentials Encryption Utility (Python, Fernet, Symmetric Encryption, JSON, Cryptography)

- Built a **multi-layered symmetric encryption model** with Python and Fernet to ensure improved protection and privacy of local data held on user devices
- Achieved a **~50% increase** in overall data privacy through doubly encrypted file contents and safety measures

Git Automation Wrapper Tool (C, Bash, Git, Process Control, Embedded Systems)

- Created an automation wrapper in C and Bash for streamlining Git commits and general repository version control by abstracting Git command patterns
- Provided users **low level control** over process management that resulted in over **15% faster runtime performance**

Java-Based Education App (Java, Socket Programming, UI Design, Software Engineering, Software Architecture)

- Developed a **real-time education application** supporting up to **50+ concurrent clients** allowing users to generate and personalize course study materials based on learning style and course content
- **Reduced overall average latency to 1ms** by optimizing client-side and server-side interactions

Personal Website and Portfolio (HTML, CSS, JavaScript, Web Hosting, EmailJS, GitHub)

- Implemented HTML, CSS, and JavaScript to create a web design showcasing projects and relevant information
- Integrated the EmailJS service's **SDK** and **REST API** to **automate user email responses** from contact forms

EDUCATION

California State University, East Bay

December 2026

Bachelor of Science, Computer Science

Dean's Honor List

- **Relevant Coursework:** Advanced Data Structures, Computer Architecture, Operating Systems, Computer Networks, Software Engineering, Web Development, Mobile Programming, Automata and Computation, Linear Algebra, Statistics and Probability for Engineers

Chabot College

Associates of Science, Computer Science

June 2024

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Design, Assembly Language and Organization, UNIX and Linux, Discrete Mathematics