

# Mateo Alado

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## SKILLS

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

## PROFESSIONAL EXPERIENCE

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### Research Intern

Hayward, CA

California State University, East Bay

January 2026 - Present

- Researched optimization methodologies for tokenizing long-context windows for LLM's alongside a team of **3 faculty researchers**
- Implemented an innovative graph agent system that yielded a **~90% performance increase** when compared to GPT-4 for 128k and 256k input lengths

### Teaching Assistant (CS)

Hayward, CA

California State University, East Bay

August 2025 - Present

- Instructed and supported an on-site class of **50 students** in hands-on instruction in Data Structures and Algorithms
- Collaborated with instructors to achieve a **~20% increase in test performance compared to previous semesters**

### Open Source Freelance Software Engineer

Remote

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**

## PROJECTS AND ADDITIONAL EXPERIENCE

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### User Login Data Encryption Engine (Python, Fernet, Symmetric Encryption, JSON, Cryptography)

- Engineered and deployed a **multi-layered symmetric encryption model** with Python and Fernet to ensure improved protection and privacy of local login data held on **100+** user devices
- **Achieved a ~50% increase** in overall data privacy through doubly encrypted file contents and security measures

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

- Built a Git automation tool to improve commit and repository workflows for a **12-person development team**
- Achieved a **23% reduction in commit and merge overhead** by automating manual Git workflow patterns

### Real-Time Learning Application (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

### Full-Stack Outreach Platform and Developer Portfolio (HTML, CSS, JavaScript, EmailJS, GitHub, REST API)

- Designed a modern **full-stack web platform** with outreach to **1500+** industry professionals on LinkedIn and GitHub
- Integrated the EmailJS **REST API** to automate email responses resulting in a **35% increase in professional outreach**

## EDUCATION

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### California State University, East Bay

December 2026

Bachelor of Science, Computer Science

Dean's Honor List

- **Relevant Coursework:** Advanced Data Structures and Algorithms, Object Oriented Design, Computer Architecture, Operating Systems, UNIX and Linux, Computer Networks, Software Engineering, Web Development, Mobile Programming, Automata and Computation, Discrete Mathematics, Linear Algebra, Statistics and Probability for Engineers