Miles Green

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EDUCATION

University of California Berkeley

B.S. in Electrical Engineering and Computer Science   **August 2021 - December 2023**

Relevant Courses: Computer Security, Computer Architecture, Data Structures, Efficient Algorithms and Intractable Problems, User Interface Design

Santa Monica College

A.S. in Computer Science   **August 2018 - May 2021**

Relevant Courses: Assembly, Data Structures, Digital Logic, Advanced Programming in C++ and Java

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, Go, Rust, Javascript, Scheme, HTML/CSS, SQL, RISC V and x86 Assembly

Skills/Working Knowledge In: React, MongoDB, Bootstrap, Figma, Cryptography, Windows, Linux, MacOS

PROJECTS

End-to-End Encrypted File Sharing System

- Developed an encrypted file sharing system in **Go** that allows trusted users to create accounts, store files, and share files with each other using a client and an insecure data server
- Users have the ability to modify files and revoke access to shared files while keeping all data secure and ensuring that it is computationally infeasible for an attacker to recover information, silently modify files, or impersonate other users even with full control over the storage server
- This implementation relies on **RSA** for file sharing, **Argon2** for key derivation and password hashing, **symmetric key encryption** of files, and **HMAC** to ensure information is only modified by users with the appropriate permissions

Git-Like Version Control System

- Developed a local version control system in **Java** that mimics some of the functionality of Git
- Allows for saving entire directories of files (committing), restoring previous versions (checking out), maintaining related series of file modifications (branching), and tracking of all modifications made to the directory (logging)
- This project was created using an object-oriented design and unit and integration tests were implemented to ensure that the application behaves as expected

PROFESSIONAL EXPERIENCE

Network Manager | Berkeley Student Cooperative   **January 2022 - Present**

- Monitored the network for faults and bottlenecks, repaired and replaced failed components such as Access Points or cables, and optimized the network performance through hardware upgrades and/or modifications to network parameters

Mathnasium Instructor   **August 2023 - Present**

- Assisted over 200 students in mastering mathematical concepts by analyzing their strengths and weaknesses, and prescribing material aimed at improving their gaps in knowledge
- Documented their progress and improvement over several sessions at the center
- Used various teaching methods such as socratic questioning and manipulatives to inspire curiosity and keep students engaged at all times