

# Miles Green

speedymg7@berkeley.edu • (818) 671-8363

[milesgreenportfolio.netlify.app](https://milesgreenportfolio.netlify.app) • [linkedin.com/in/miles-green-190050277](https://linkedin.com/in/miles-green-190050277) • [github.com/MilesGreen7](https://github.com/MilesGreen7)

## EDUCATION

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### 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

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**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

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### 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

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### Network Manager | Berkeley Student Cooperative

January 2022 - August 2024

- 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

### Assistant Center Director and Instructor | Mathnasium

August 2023 - Present

- Assisted over 300 students in mastering mathematical concepts by analyzing their strengths and weaknesses, and prescribing material aimed at improving their gaps in knowledge
- Some responsibilities include opening and closing the center, communicating with and scheduling staff to work based on availability, assessing students and prescribing appropriate material, communicating with parents on student progress, mentoring instructors to improve instruction techniques, and documenting student progress over several sessions at the center