Miles Green

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Computer Engineer and Software Developer

As a UC Berkeley Electrical Engineering and Computer Science undergraduate, I have experience designing, implementing, debugging, and testing large scale projects such as my own local version control system with similar functionality to Git and an end-to-end encrypted file sharing system that guarantees confidentiality, integrity, and authenticity of users and their data. Collaboration with peers on projects has taught me how to work with others in a way that is considerate, professional, and respectful while also implementing efficient solutions to software and design problems.

Education

Electrical Engineering and Computer Science Major University of California Berkeley | August 2021 - Present

Music Minor University of California Berkeley | August 2021 - Present

Associate's Degree in Computer Science Santa Monica College| August 2018 - May 2021

Associate's Degree in General Science Santa Monica College| August 2018 - May 2021

Professional Experience

Network Manager
Berkeley Student Cooperative | January 2022 - Present

- Researched hardware products and suggested solutions to improve network performance
- Assessed network performance to identify system bottlenecks and improve workloads
- Planned network upgrades and maintenance tasks during late night and weekend hours to avoid downtime
- Corrected hardware, software and network connectivity issues by diagnosing faults and completing skilled repairs

Relevant Projects

End-to-End Encrypted File Sharing System (Go)

Allows users to create accounts, store files, and share files locally. All files are encrypted and MACed to ensure integriy and authenticity of all data

Git-Like Version Control System (Java)

Version control system for local files that mimicks Git functionality allowing for commits, checkouts, branching, logs, and more

Autocorrector (Python)

Takes user input and uses recursion to determine whether or not to autocorrect based on number of operations it would take to correct the input

Scheme Interpreter (Python)

Developed an interpreter for the Scheme language in Python using lexical and syntactical analysis

Enigma Simulator (Java)

Program that encrypts or decrypts messages, simulating the behavior of the World War II enigma machine

Proficient Languages

- Python
- C/C++
- Go
- Java
- Javascript
- RISC V and x86 Assembly
- Scheme
- HTML
- CSS
- SQL