

Brandon Michael Fong

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EXPERIENCE

Lead Software Engineer (Languages: C, C++, Obj-C, Swift, Bash) Dec 2020 – Present

Other World Computing - Mill Valley, CA

- Resolved critical issues in driver code for [SoftRAID](#) that affected 100,000+ users, ensuring optimal system performance and stability
- Re-architected the codebase for [Copy That](#), reducing code complexity
- Fulfilled 1000+ feature requests, applied 5000+ bug fixes, and implemented 100+ enhancements to improve product functionality and reliability for [SoftRAID](#) & [Copy That](#)
- Participated in weekly key meetings, contributing insights and technical expertise to drive decision-making across multiple projects
- Made over 100+ decisions on the direction of the macOS application [Copy That](#), putting the application in a competitive front in terms of speed and reliability against competitors like [ShotPutPro](#)
- Volunteered to assist other teams with build processes, demonstrating proficiency in scripting languages such as Bash, Zshell, and Python
- Collaborated with other teams to triage macOS-specific issues, leveraging in-depth knowledge of macOS platform intricacies
- Contributed to the development and release of applications for Windows and macOS for other teams
- Automated a firmware updating workflow that updated 500,000+ hard drives

Command Line Instant Messenger (Languages: C++) June 2022 – Present

Github: <https://github.com/BrandonMFong/chat>

- Developed a minimalist, encrypted command-line chat inspired by the Nintendo's PictoChat
- Utilized libraries like NCurses and OpenSSL for command line UI and end-to-end encryption respectively
- Designed application with a scalability factor that can support 100+ users across Unix-like platforms

Command Line Alias Navigator (Languages: Rust, Bash, Zshell) June 2018 – Present

Github: <https://github.com/BrandonMFong/goto>

- Implemented the concept of another project named [goto](#) in the Rust language, taking advantage of the performance of a compiled language and the cross platform support
- Designed to support alias relationships with 1000+ directories in your file system

Package Manager (Languages: Python) Dec 2024 – Present

Github: <https://github.com/BrandonMFong/bft>

- Developed a python tool to manage other tool installation using modules like requests, tarfile, & dmllib
- Utilized github APIs to manage and monitor supported packages
- Optimized request count to ensure the tool stays within github APIs rate limit

EDUCATION

Master of Science in Electrical and Computer Engineering Aug 2020 - Dec 2021

Sonoma State University - Rohnert Park, CA

Finished the program in less than two years in the accelerated track while also working a full time job at Other World Computing

Bachelor of Science in Computer Engineering Aug 2015 - May 2020

San Diego State University - San Diego, CA

SKILLS

- Languages:** C, C++, Obj-C, Swift, Python, Golang, Rust, Bash, Zshell
- Frameworks/Libraries:** Core Foundation, DriverKit, IOKit, Openssl, Ncurses, Pthreads
- Technologies:** lldb, gdb, Unit Testing, CI/CD, Makefile, SSH, Linux, TCP/UDP
- Other:** Linear Algebra, Machine Learning, Microsoft Office, TrueNAS