Jackie Gong

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EDUCATION

Stanford University — Stanford, CA, USA
Bachelor of Science in Computer Science, Systems Track — *Expected June 2023*
- GPA: 3.878

Stanford University — Stanford, CA, USA
Master of Science in Computer Science, Computer and Network Security Track — *Expected June 2023*
- GPA: 3.756

EXPERIENCE

Back End Developer Intern/Co-op — June 2022 – Present
IBM — *San Jose, CA*
- Promoted new build versions each day after running Openshift clusters through BVT and FVT Jenkins pipelines to verify proper software installation, upgrade, and rollback with different file systems and IAM authentication.
- Analyzed and fixed reported defects in software product using Golang to be consistent with product specifications in an agile, CI/CD environment.
- Identified possible regression bugs through manual testing in Postman and automated testing with Puppeteer.

Student Office Assistant — Sep. 2019 – June 2022
Hume Center for Writing and Speaking — *Stanford, CA*
- Scheduled writing appointments for students with professors and other students according to their matriculation status and subject matter.
- Communicated with co-workers about workshop requests, student inquiries, and appointment scheduling issues.
- Organized and facilitated a weekly workshop for the Stanford Storytelling Project companion program both virtually and in-person with different faculty members each week.

Code in Place Section Leader — Apr. 2021 – May 2021
Remote
- Taught weekly discussion section by working through coding problems and highlighting coding best practices.
- Worked with other section leaders to determine best methods for conveying topics from each lecture to students.

TECHNICAL SKILLS

Languages: Bash, C, C++, Golang, Python, Java, Javascript (+HTML/XML/CSS), SQL
Frameworks: Express.js, Node.js, React
Developer Tools: Docker, GDB, Git, Jenkins, Kubernetes/Openshift, MongoDB, Postman, Puppeteer, Unix, Valgrind

PROJECTS

Barcode Database Android Application | *Java, Android Studio, Google ML Kit, SQL* — Mar. 2021 – Dec. 2021
- Used Google ML Kit to read barcodes for entry into local database as "products".
- Allowed barcodes to be stashed into persistent database with associated product information like price or name.
- Scanning a previously seen barcode retrieves stashed product information for viewing and editing.

Discord Music Bot | *Python, Discord developer API, youtube-dl* — Sep. 2021
- Uses youtube-dl to stream a video's audio from Youtube into a Discord voice channel.
- Controlled using Discord's developer API to monitor prefixed chat commands.

ngrok Texting Script | *Python, ngrok, systemd* — Apr. 2021
- Combined a systemd service file and Python script to run and manage ngrok service.
- On Arch Linux boot, sends SMS message with SSH tunnel command from ngrok to a personal phone number to allow SSH from any terminal.
- SSH tunnel command is extracted from the ngrok localhost status page via Python JSON manipulation.

Pintos Operating System Improvements (CS140) | *C* — Jan. 2021 – Mar. 2021
- Extended threading to support priority scheduling and donation, mutexes, and semaphores.
- Implemented OS interaction from user programs via system calls.
- Allowed user programs full memory access by implementing virtual memory to reduce memory limitations.
- Improved file system capabilities with a buffer cache, inode indexing, and subdirectory support.