

Bernard Kim

SOFTWARE DEVELOPER

Lynnwood, WA

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Education

University of Washington

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- GPA: 3.44/4.0

Seattle, WA

Jun. 2018

Projects

Tutoro

PLATFORM FOR MATCHING TUTORS/TUTEES

- Integrated aws S3 to store images/files and a mongoDB to store user profiles.
- Wrote unit tests with mocha/chai to test API endpoints.
- Utilized Python's Scrapy framework to scrape course listings.

[Live Site](#) | [Github](#)

Dec. 2018 - Jan. 2019

LOL Chat

DISCORD CLONE, MESSAGING WEB APPLICATION

- Built a simple chat server using Node.js and Socket.io for realtime communication.
- Implemented voice chat using WebRTC allowing P2P audio communication.
- Deployed a coTURN docker container to relay WebRTC media traffic.

[Live Site](#) | [Github](#)

Nov. 2018 - Dec. 2018

PTrade

WEB APPLICATION FOR TRADING STOCKS WITH A MOCK PORTFOLIO

- Developed a RESTful API in Go to handle user transactions stored in a MySQL database.
- Created scheduled tasks to pull the latest stock market prices and log user data.
- Font-end built using React.js and tested using Jest.js

[Live Site](#) | [Github](#)

Jul. 2018 - Oct. 2018

KV Store

DISTRIBUTED KEY VALUE STORE

- Built a highly available, scalable, fault tolerant key-value store using Java.
- Implemented at-most-once RPC semantics to prevent duplication.
- Implemented the multi-Paxos algorithm for state machine replication.
- Partitioned the key set to improve system throughput.

Mar. 2018 - Jun. 2018

XK Operating System

UNIX-LIKE OPERATING SYSTEM BUILT ON TOP OF [XV6](#).

- Implemented I/O system calls (open/close/read/write/...).
- Enabled the operating system to run multiple processes with fork/exec.
- Added a relatively full-featured virtual memory system (LRU swapping, mmap, copy-on-write).

Sep. 2017 - Dec. 2017

Skills

LANGUAGES

- [Java](#) [C](#) [Python](#) [Go](#) [SQL](#) [HTML](#) [CSS](#) [JavaScript](#)

TECHNOLOGIES/Frameworks

- [Git](#) [Slack](#) [Postman](#) [S3](#) [Node.js](#) [Mocha/Chai](#) [React.js](#) [Redux](#) [Jest](#)