

Lvnnwood. WA

Education

University of Washington

Seattle, WA Jun. 2018

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- GPA: 3.44/4.0
- Coursework:

Compiler Construction Computer Networks Computer Security Data Management Embedded Systems Distributed Systems Machine Learning Operating Systems

Projects_

LOL Chat

WEB APPLICATION FOR TEXT/VOICE CHAT

Nov. 2018 - Dec. 2018

- Built a simple chat server using **Node.js** and Socket.io.
- Implemented voice chat using WebRTC and deployed a coTURN docker image.

PTrade

WEB APPLICATION FOR TRADING STOCKS WITH A MOCK PORTFOLIO

Jul. 2018 - Oct. 2018

- 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 for analytics.
- Font-end built using React.js

KV Store

DISTRIBUTED KEY VALUE STORE

Mar. 2018 - Jun. 2018

- 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.

MiniJava Compiler

COMPILES MINIJAVA CODE INTO X86-64 ASSEMBLY CODE

Mar. 2018 - Jun. 2018

- Worked in a team of two to build a MiniJava compiler using Java .
- Implemented the scanning and parsing phase utilizing JFlex/CUP java packages.
- Implemented semantic checking and code generation using ASTs.

XK Operating System

UNIX-LIKE OPERATING SYSTEM BUILT ON TOP OF XV6.

Sep. 2017 - Dec. 2017

- Implemented a handful of system calls.
- Enabled the operating system to run multiple processes.
- Added a relatively full-featured virtual memory system (LRU swapping, mmap, copy-on-write).

Skills_

Tools & Technologies

Java C Python Go JavaScript React.js Node.js SQL Heroku Git Unix