

# Wai Chun Leung

(858) 729-3185 | [wchun.lss@gmail.com](mailto:wchun.lss@gmail.com) | [github.com/wchunl](https://github.com/wchunl)

## Education

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**Bachelor of Science, Computer Science**

University of California, Santa Cruz

**Sept. 2017 ~ Jun. 2021**

GPA: 3.8, Dean's Honor List

## Work Experience

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**Amazon Web Services, Software Development Intern**

**Jun. 2020 – Sept. 2020**

- Develop a responsive web application using React, Typescript, and Node to enhance customer experience with viewing, searching, and creation of AWS cloud service logs.
- Design and integrate a web service for handling data queries and stores for millions of customer logs retrieved from AWS services such as EC2, Cloud Trail, and Route 53.
- Improve product stability and detect regression by implementing unit tests and end to end tests using Jest, Testing-Library, and Puppeteer.

## Projects

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**E-Mail Web Application**

**Sept. 2020 – Dec. 2020**

- Create a full-stack E-mail web application using React and Material UI for the browser, Node and Express for the server, and PostgreSQL for storage.
- Allows users to view, create, delete, and manage emails in multiple inboxes within the web application.
- Implement unit tests and end to end tests using Jest and Puppeteer to ensure reliability.

**Distributed Key-Value Store**

**Mar. 2020 – Jun. 2020**

- Develop a distributed key value store using Python, Flask, and Docker that emulates database programs such as MongoDB and CouchDB.
- Build and test consistent and fault-tolerant distributed servers to improve access performance and data reliability.

**Password Cracker**

**Sept. 2018 – Dec. 2018**

- Brute-force password cracker written in C++
- Use a multi-threaded approach on all possible CPU cores to increase efficiency and speed.
- Create multiple instances of the password cracker using distributed systems.

**Custom Compiler**

- Work in a team to create a C++ program that compiles a custom language
- Implement a lexical analyzer, LALR parser, symbol/type checker, and intermediate code generator to fully read and process a custom language into an executable program.
- Integrate symbol tables, string sets, and abstract syntax trees to optimize the speed and efficiency of the program.

## Skill / Interest

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**Languages:** Java, C/C++, Python, .NET/C# , Haskell, Bash, Assembly (MIPS & RISC-V)

**Web:** Javascript (ES6), React, Typescript, NodeJS, HTML/CSS

**Database:** postgresSQL, mySQL, DynamoDB, MongoDB, Oracle, ODBC/JDBC

**Other:** Linux (Ubuntu), Git Bash, UNIX, Visual Studio, Docker, Eclipse, IntelliJ