

Aster Yuk Kiu Chun

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LINKS

Github:// [asterchun](#)
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EDUCATION

UC BERKELEY

BA COMPUTER SCIENCE

BA APPLIED MATHEMATICS

Expected May 2022

Cum. GPA: 3.9 / 4.0

COURSEWORK

UNDERGRADUATE

IN PROGRESS:

Efficient Algorithms

Databases

Abstract Algebra

COMPLETED:

Compilers

Artificial Intelligence

Computer Security

Data Structures

Machine Structures

Discrete Mathematics

Information Devices and Systems

Numerical Analysis

Linear Algebra

SKILLS

PROGRAMMING

LANGUAGES

Proficient

Kotlin • Java • Python • Javascript

Familiar:

C • Go • SQL • CSS • HTML • RISC-V

Matlab • Snap!

TOOLS

React • Git • Flask • NumPy • Volley

Express.js • Android Studio • Node.js

GraphQL • Apollo Client • OkHTTP

ΛΤΕΧ

EXPERIENCE

SPRINKLES | SOFTWARE ENGINEER INTERN

May 2020 - August 2020 | Berkeley, CA

- Developed an Android app that performs user authentication and video upload to the iOS app Sprinkles.
- Utilized GraphQL and Apollo Client to communicate with online database to perform user authentication and to generate upload link.
- Used Fuel HTTP library to upload video onto database to be displayed in iOS app using HTTP PUT request.

UC BERKELEY EECS DEPARTMENT | LAB ASE

December 2020 - Present | Berkeley, CA

- Taught students fundamental EE theory, hardware debugging skills and real-world application of linear algebra by assisting lab assignments.
- Helped ensure course was run smoothly for 1000+ students.

PROJECTS

COURT QUEUING SYSTEM | GITHUB, WEBSITE

Languages/Tools: JavaScript, HTML, CSS, React, Express.js, Node.js

December 2020

- Developed a full stack web application that is used by Cal Badminton.
- Application allows players to sign up on a queue during open gym and will notify players when it is their turn.
- Application also contains a moderators page to edit queue and notify players.
- Utilized Websocket API to allow efficient data transfer for real-time collaborative editing.

WHAT WE EATIN? | GITHUB

Languages/Tools: Kotlin, Android Studio, Volley | December 2020 - Present

- Developed an Android App that randomly picks a nearby restaurant.
- Allows user to specify preferences such as pricing, cuisine and location radius.
- Utilized Volley to make an API call to Yelp Fusion API to get list of nearby restaurants.
- Currently working on establishing database to allow collaborative choices between users.

CHOCOPY COMPILER | GITHUB: PRIVATE REPO

Languages: Java, jflex, Cup, RISC-V | September 2020 - November 2020

- Designed and implemented a fully functioning compiler for the Chocopy language - a subsection of Python.
- Compiler will generate AST for given code as a JSON object before performing type checking.
- After type checking, compiler will generate and optimize RISC-V code.
- Worked on a team with three other software engineers, using Git to maintain version control.

ENCRYPTED FILE SHARING SYSTEM | GITHUB: PRIVATE REPO

Languages: Go | July 2020

- Designed and implemented an encrypted version of Dropbox.
- System allows users to share and revoke files with each other.
- Utilized block ciphers and HMACs to ensure integrity and confidentiality of files.