Aster Yuk Kiu Chun

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LINKS

Github:// **asterchun**
LinkedIn:// **aster-chun**
Personal Website:// **asterchun**

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
LaTeX

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.