

Jun Hee Han

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Education UC Berkeley - B.A. Computer Science *Expected Class of 2022*
Coursework: Operating Systems (current), Database Systems (current), Algorithms, Computer Security, Data Structures, Machine Structures, Discrete Math/Probability
• GPA: 3.78

Experience **UC Berkeley EECS Department** | Academic Intern/Tutor *January 2019 - Present*
Programming Fundamentals (CS 61A) • Data Structures (CS 61B) • Machine Structures (CS 61C)
• Helped students in lab, answered questions in office hours, and assisted head TA in the two introductory computer science classes at UC Berkeley (61A and 61B)
• Tutored students individually (61B and 61C), going over lecture material and practice problems

Renewable and Appropriate Energy Lab | Research Assistant *January 2019 - May 2019*
• Worked in team of 3 to construct strategies for California to reach its decarbonization goals
• Used Pandas and NumPy on public energy datasets to identify and analyze the economic factors driving electricity and natural gas usage in California's largest districts

Projects **Encrypted File Sharing System** *Fall 2019*
Backend • Go, VSCode
• Designed and implemented in Go an end-to-end secure file sharing system that allows users to create/load/append to files and share/revoke file permission to other users
• Utilized public/symmetric key encryption to ensure confidentiality of data on the server
• Applied hash-based message authentication code and digital signature scheme to guarantee integrity and authenticity of sharing/revocation of files, and to detect malicious modifications to data by server itself

CPU *Summer 2019*
RISC-V, C, Logism
• Constructed a pipelined CPU in Logisim with 5 stages to simulate code run through the CALL process
• Implemented part of a compiler to convert C code into RISC-V

Bearmaps *Spring 2019*
Backend • Java, IntelliJ
• Programmed backend of a web mapping application of Berkeley in Java, with features such as image rastering at various zoom levels, autocomplete location search, and route mapping

Frozone *Summer 2018*
Full Stack • Swift3, XCode
• Developed and pushed to App Store an iOS app that shows users the expiration dates of foods in their pantry and how many days before food items go bad
• Provides average shelf life for 300 common foods and allows users to input custom expiration dates

Skills Python, Java, C, Go, Swift, Assembly (RISC-V), SQL, Scheme, Numpy, Pandas

Affiliations **Upsilon Pi Epsilon** *Fall 2019 - Present*
• Member of UPE Nu Chapter, UC Berkeley's CS Honor Society
• Member of Industrial Relations committee: sourced guest speakers from companies, hosted company info sessions, promoted event on campus, and planned sponsorships with companies

Computer Science Mentors *Fall 2019 - Present*
• Teach group of CS61B (Data Structures) and CS 70 (Discrete Math/Probability) students through mini-lectures/problem based worksheets

Innovate Berkeley *Fall 2018*
• Worked in team of five to construct prototype of new feature for open source student services mobile app: feature displays how crowded UC Berkeley libraries and study rooms are at any given time
• Implemented UX for home menu and data transfer from backend to library display page