

Eric Chang

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EDUCATION

University of California, Berkeley

Bachelor of Arts in Computer Science

Berkeley, CA

Expected: May 2022

SKILLS

Languages: Java, Python, C, SQL, Scheme, JavaScript, HTML/CSS, R, RISC-V Assembly

Developer Tools: Git, VS Code, Visual Studio, IntelliJ

EXPERIENCE

Treasurer - Cal Badminton

Treasurer of Cal Badminton

06/2020 - present

Berkeley, CA

- Keep track of club budgets for socials and club supplies, such as shuttlecocks and uniforms
- Responsible for issuing club reimbursements

Academic Intern - UC Berkeley EECS Department

Data Structures Academic Intern

06/2020 - 08/2020

Berkeley, CA

- Helped teach 25+ students course topics such as Dijkstra's, Union-Find, Hashtables, Red-Black Trees, etc.

Research Internship - UC San Diego

Research Intern under Dr. Chung-Kuan Cheng

06/2018 - 08/2018

San Diego, CA

- Co-authored two formal papers listed below
- Worked alongside Professor Chung-Kuan Cheng and others
- Studied the runtime of the All Pairs Minimum Cut brute force solution on randomly generated strongly connected directed graphs
- Researched and tested the viability of a cuff-less blood pressure monitor using a 3-axis accelerometer

California State Summer School for Mathematics and Science

UC San Diego

07/2017 - 08/2017

San Diego, CA

- Worked and gained experience with Python, circuits, Audacity, Pd, Raspberry Pi and Arduino
- Researched the application of machine learning to audio files for a novel approach to audio style transfer

PUBLICATIONS

- Eric Chang, Chung-Kuan Cheng, et al., "Empirical Study on Sufficient Numbers of Minimum Cuts in Strongly Connected Directed Random Graphs," *Networks*, 2020; 76: 106-121.
- Eric Chang, Chung-Kuan Cheng, et al., "Cuff-Less Blood Pressure Monitoring with a 3-Axis Accelerometer," *2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Berlin, Germany, 2019, pp. 6834-6837.

PROJECTS

Gitlet | Java

Github: Private Repo

- Developed a basic version control system similar to Git
- Designed and implemented file storing structures and basic version control functionality such as committing, branching, merging, and creating remotes