

Andrew E. Zhang

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EDUCATION

University of California, Berkeley

BS, Electrical Engineering and Computer Science

Aug 2019 – May 2023 (Expected)

Berkeley, CA

- GPA: 3.82/4.0

EXPERIENCE

DataJaguar

Software Engineering Intern

Jul. 2017 – Sept. 2017

San Ramon, CA

- Developed a lightweight Go package to increase flexibility of database software for end users
 - Called pre-existing C++ methods from Go using the Cgo package
- Implemented a B-tree structure for database management
- Efficiently communicated and planned as part of a small team

PROJECTS

- **Bearchat** Oct. 2020
 - A social media site where users sign up, write posts, and make friends
 - Created 5 CRUD microservices which were managed using Docker
 - Implemented user email verification, input sanitization, and cookie creation
 - Technologies: Go, MySQL, HTML, Docker, Amazon EC2
- **Pathfinder** Aug. 2020
 - Small app to visualize A* search
 - Recomputes shortest path in real time as walls, start, and end positions are changed
 - Written in Java
- **Reflector** Jun. 2019
 - A simple game created using PyProcessing
 - Tracks player speed and survival time to dynamically increase difficulty according to skill
 - Image processing and file systems utilized to create avatars and other objects
 - Written in Python

EXTRACURRICULARS

- **IEEE Website Committee Member** Sept. 2020 – Present
 - Member of team that builds and maintains various websites for the IEEE chapter at UC Berkeley
 - Created Javascript app for PNG to JPEG conversion, hashing images, and store in Mongoose Database as part of the UC Berkeley Global Startup Fair Website
 - Implemented OAuth for internal website access
- **IEEEExtreme 14.0 Competitor** Oct. 2020
 - Participated in a 24-hour programming competition solving 24 programming problems
 - Led a team of 2 to place 11th in the US and top 200 worldwide (90+ percentile)

SKILLS

- Proficient: Java, Python, C
- Working knowledge: JavaScript, NodeJS, Go, MySQL, HTML, C++, Docker, MongoDB/Mongoose