ANTHONY DING

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EDUCATION

University of California, Berkeley **Berkeley, CA**
Bachelor of Science, Electrical Engineering and Computer Sciences (EECS) **Aug 2018 – May 2022**

- **GPA:** 3.92 / 4.0
- **Coursework:** Algorithms, Artificial Intelligence, Computer Architecture, Computer Programs, Computer Security, Data Structures, Discrete Math and Probability Theory, Information Devices, Optimization Models
- **Activities and Societies:** Computer Science Mentors (CSM), Tau Beta Pi (TBP), Eta Kappa Nu (HKN)

EXPERIENCE

Eta Kappa Nu (EECS Honor Society) **Berkeley, CA**
Computing Services Officer **May 2019 – Present**

- Led committee of 20+ student developers to build new HKN website in Django
- Designed robust candidate portal that helps new members track initiation requirements
- Implemented database models to provide released practice exams for 1000+ students

UC Berkeley EECS Department **Berkeley, CA**
Course Tutor, Data Structures **Jan 2020 – May 2020**

- Taught weekly small group sections on fundamental concepts in data structures
- Created course content: tutoring worksheets, walkthrough videos, and LaTeX notes
- Held weekly office hours to answer questions about lecture, homework, and projects

Computer Science Mentors **Berkeley, CA**
Junior Mentor **Jan 2020 – May 2020**

- Mentored five students for introductory EE course, covering linear algebra and circuits
- Attended family meetings to hone teaching and mentoring skills with other CS Mentors

SELECTED PROJECTS

Secure File Sharing System | *Golang*

- Built a fully encrypted file sharing system where multiple users can modify, share, and revoke files
- Ensured authenticity, integrity, and security, even if main database were compromised by attackers

Pacman AI | *Python*

- Created intelligent agents to play Pacman using expectimax, alpha-beta pruning, and Bayesian inference
- Improved agent performance through classic reinforcement learning (approximate Q-learning, policy iteration)

RISC-V Processor | *Logisim, RISC-V*

- Implemented a pipelined CPU in Logisim (Verilog GUI) to handle RISC-V instruction set
- Verified control unit and datapath functionality with unit/integration test suite of RISC-V assembly programs

Course Map | *React, CSS*

- Currently creating an interactive course map of Berkeley EE and CS courses, approved by EECS faculty
- Modularizing courses using React components and simulating physics with D3.js force charts

SKILLS AND HONORS

- **Languages:** Python, Java, C, Go, RISC-V Assembly, JavaScript, HTML, CSS, Scheme, SQL
- **Technologies:** Django, React, Bootstrap, NumPy, SciPy, OpenMP, Git, D3.js, Logisim
- **Honors:** USA Math Olympiad (USAMO) Qualifier