Anthony **Ding**

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Education

University of California, Berkeley
Berkeley, CA

ELECTRICAL ENGINEERING AND COMPUTER SCIENCES (3.925/4)
Aug. 2018 - May 2022

- **Coursework:** Artificial Intelligence, Computer Programs, Computer Security*, Data Structures, Designing Information Devices and Systems, Discrete Mathematics and Probability Theory, Efficient Algorithms and Intractable Problems, Machine Structures, Probability and Random Processes*, Optimization Models in Engineering*, Teaching Computer Science (* = planned)
- **Activities:** Eta Kappa Nu (HKN), Tau Beta Pi (TBP), Pioneers in Engineering

Experience

Assistant Officer and Developer
Berkeley, CA

ETA KAPPA NU, COMPUTING SERVICES
May 2019 - Present

- Developed and maintained new HKN website using Django
- Wrote and fixed internal script libraries for handling G Suite admin logistics and the member database
- Advanced new initiatives and recruited candidates for Computing Services committee

Academic Intern
Berkeley, CA

UC BERKELEY EECS DEPARTMENT
Jan. 2019 - May 2019

- Lab assistant and office hours tutor for CS61A "Structure and Interpretation of Computer Programs"
- Taught small group lab sections to instill foundational CS concepts (recursion, OOP, etc.)
- Debugged and analyzed student homework and project code at office hours

Summer Research Intern
Los Angeles, CA

UCLA SAMUELI SCHOOL OF ENGINEERING
Jun. 2017 - Aug. 2017

- Attended 8-week research program for motivated high school students
- Reduced material costs and improved mechanical actuation capabilities of printable robots
- Developed Arduino programs to integrate remote control with super-coiled polymer actuator system

Skills and Honors

- **Languages:** Python, Java, C/C++, RISC-V Assembly, Lisp (Scheme), HTML, CSS, JavaScript, LaTeX
- **Technologies:** Django, TensorFlow, PyTorch, React, Git, Arduino
- **Honors:** USAMO Qualifier, 4th Place - National Physics Bowl

Projects

Surfer

SENTIMENT ANALYSIS FOR STOCK MARKET

- Trained a Naive Bayes Classifier to predict Dow and market reactions in response to breaking news on Reddit
- Currently building more accurate deep learning classifier with TensorFlow

Snapshot

PHOTOGRAPHY WEBSITE TEMPLATE

- Designed and developed minimalist website template for photographers, bloggers, and students
- Worked with responsive CSS and web development tools to ensure consistent aesthetics across different devices

Torches

TWO PLAYER GAME WORLD

- Implemented software engineering principles to build randomized graphical world system for UC Berkeley Data Structures Course
- Pair programmed two-player game in the world and hosted dorm tournament

YelpMaps

RESTAURANT MAPPING IN BERKELEY

- Implemented k-means clustering algorithm to map restaurant ratings, training on Yelp academic dataset
- Constructed Voronoi diagram to visualize restaurant ratings and locations, adjusting to various user preferences