

Anthony Ding

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EDUCATION

University of California, Berkeley

Aug 2018 – May 2022

B.S. Electrical Engineering and Computer Science

GPA: 3.9/4.0

Coursework: Algorithms, Data Structures, Computer Architecture, Operating Systems, Security, Graphics, Optimization, Discrete Math/Probability, Artificial Intelligence, Machine Learning, Data Science

Activities: Data Structures – Course Staff, Computer Science Mentors – Senior Mentor, Undergraduate Research Apprentice Program, Eta Kappa Nu, StemEd – Academic Committee, Tau Beta Pi

EXPERIENCE

Amazon | Software Development Engineer Intern

May 2021 – Aug 2021

Built visualization feature for Alexa conversations used by 30+ partner teams and 100+ engineers in production

- Designed and implemented frontend and UI using MVC, conducted UI/UX testing with customer groups
- Created service-level APIs to route 50/sec of cross-team DynamoDB queries through one access point
- Presented to Director, receiving praise for synthesizing project technical complexity at a high level

Berkeley Lab | Undergraduate Researcher

Feb 2021 – Aug 2021

Developed and applied graph neural networks to classify particle physics events in Professor Haichen Wang's lab

- Implemented Python package to tailor Deep Mind's Graph Nets for identifying Tau lepton decay events
- Optimized training on ROOT data from the Large Hadron Collider using Ray Tune hyperparameter tuning
- Led initiative to document 25+ module functions from scratch through wikis and Jupyter notebooks

UBTECH Robotics | Software Engineering Intern

Jun 2020 – Aug 2020

Designed and implemented computer vision annotation framework for robotic arm dexterity experiments

- Integrated hand manipulation/gripping physics tools into LabelMe annotation GUI using PyQt libraries
- Built relational database system and C++ API to store annotated properties of grasped objects
- Automated experimental data collection using NumPy and shell scripts, saving engineers 10 hours/week

SKILLS / AWARDS

- **Highly Proficient:** Python, Java, C/C++, JavaScript, NumPy, SQL/Relational Databases, React, Node.js, Git
- **Proficient:** Go, Assembly (x86, RISC-V), AWS, Django, TensorFlow, OpenGL
- 3x USA Math Olympiad Qualifier - Recognized as top 200 precollegiate math students in USA

PROJECTS

Imprint | React, Node.js, Express, MongoDB

- Built Imprint (<https://imprint.to>), a content ownership-focused social blogging platform, with team of 4
- Incubated at Mozilla Builders "Fix the Internet" Incubator MVP lab with \$16k grant funding
- Defined growth strategies and marketed to popular bloggers, reaching 500+ users in a quarter

Eta Kappa Nu (HKN) Honor Society Website | Django

- Led team of 20 to build new website, serving 300+ members, 5000+ students, and 25+ organizations
- Oversaw initiative to enhance industry section, streamlining campus recruiting process for companies
- Created candidate portal for 50+ prospective HKN members per year to track initiation requirements