Ethan Pang

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SUMMARY

Second year student at UC Berkeley pursuing a B.A. in Computer Science and actively searching for a software engineering internship. Demonstrated strengths in web development, algorithms, object-oriented programming, data structures, data engineering, and ML through projects, courses, and work experience.

EDUCATION

University of California, Berkeley **June 2020 – May 2023**

B.A. Computer Science | GPA: 3.8/4.0 | CAA Leadership Award Recipient | Upsilon Pi Epsilon (CS Honor Society)

Relevant Coursework

- Data Structures and Algorithms/Efficient Algorithms
- Intro to Artificial Intelligence/Intro to Machine Learning/Principles of Data Science:
- Computer Architecture/Designing Information Devices & Systems (EECS)/Discrete Mathematics and Probability Theory

SKILLS

- Java, Python, C, HTML, CSS, JavaScript, TypeScript, Swift, SQL, RISC-V
- React.js, Next.js, Node.js, Firebase, Chakra.ui, Bootstrap
- Data engineering, data pipeline, data analysis, data modeling, data inference
- PyTorch, scikit-learn, ML workflow, numpy, pandas, neural networks, CNNs, classification, regression
- Agile, AWS RDS, Android, IOS, Linux, git, Jupyter Notebook, Arduino, Raspberry Pi, Solidworks

EXPERIENCE

Data Engineering PM - Public Editor **September 2021 - May 2022**

- Analyzed user performance with a moving-average algorithm to allow the platform to score users' credibility
- Built data processing pipeline with pandas and stored user info in AWS MySQL database

Frontend Developer - Web Development at Berkeley **September 2021 - Present**

- Developing websites for external clients in the industry using React.js and Next.js frameworks, Chakra.ui styling library, and HTML/CSS
- Engaging in the agile development process in collaboration with a project team

Course Tutor: CS61B - UC Berkeley **June 2021 - August 2021**

- Taught as course staff for UC Berkeley's core data structures course, CS61B
- Prepared and presented supplementary mini-lectures to students to reinforce concepts and guided students through practice questions to solidify understanding of material
- Answered student questions about assignments, and provided real time debugging help with projects

Mini Git Clone with Java **February 2021 - April 2021**

- Created a version control system based off of git using Java
- Implemented common commands (commit, checkout, merge, push, pull, etc.) following git's specifications
- Allowed creation, deletion and modification of actual files on the system via the command line interface

FIRST Tech Challenge Robotics **August 2016 - June 2020**

- Built robots to compete in competitions using purchased, machined and 3D printed parts
- Used Java and Android Studio to program the robot to perform autonomously through sensor readings, computer vision, and mathematical algorithms and to respond to human input via a physical gaming controller
- Organized and lead team outreach efforts to teach public STEM workshops and mentor other robotics teams
- Advanced to World Championships three of four years and served as team Co-Captain in the 2019-2020 season

AWARDS/HONORS

- California Alumni Association Leadership Award
- Upsilon Pi Epsilon: Nu Chapter (CS Honor Society)
- Chinese Student Association Officer: Webmaster