JOY DONG

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EDUCATION

University of California, Berkeley | Computer Science **May 2021**

- GPA: 3.69
- Coursework: Data Structures, Data Science, Discrete Math and Probability, Web Design, Efficient Algorithms, Machine Structures, Artificial Intelligence (in progress), Database Systems (in progress), Linear Algebra and Differential Equations (in progress)

SKILLS

- Proficient In: Java, Python, LaTeX
- Experience With: C, Git, Vim, IntelliJ, Scheme, SQL, HTML/CSS, JavaScript, JSP, XML

EXPERIENCE

Software Development Engineer Intern | Amazon | Seattle, WA **June— Aug. 2019**

- Resolved customer difficulty of locating product features on Amazon.com pages by designing a fully configurable simplified tabular offer layout to group, order, and organize product details
- Collaborated with senior engineers, designers, product managers, and other teams to fetch data from preexisting packages, integrate internal Amazon tools, and resolve dependencies via XML to optimize the shopping experience for 280MM customers and increase profit by $10MM
- Created a UI demo of a view for an immersive image variation and evaluation customer experience for the BuyX team Hackathon, presented to a panel of directors and senior managers

Lab Assistant | CS 61A: Computer Programs | UC Berkeley, CA **Jan.— Dec. 2018**

- Explained topics like recursion and object-oriented programming at weekly lab sections
- Guided around 40 students through lab, homework, and project problems by working step-by-step to help them develop computing and problem-solving skills through one-on-one feedback

PROJECTS

Maze Game | Java **Feb. 2018**

- Created an interactive game that handles user inputs and keyboard action using a StdDraw class
- Designed a world-generation algorithm that guarantees pseudorandomly-generated game worlds
- Investigated and implemented “save and quit” mechanisms via serialization and deserialization

Scheme Interpreter | Python, Scheme **Nov. 2017**

- Developed an interpreter for Scheme using Python by following the REPL procedure
- Accounted for built-in procedures, user-defined procedures, special forms, macros, tail recursion
- Wrote over 200 test cases to test a variety of implementations and the accuracy of the interpreter

ACTIVITIES

ANova | External Vice President | UC Berkeley **Sept. 2017— Present**

- Coordinated weekly computer science classes at under-resourced public schools, mentoring 30 students through difficult problems and providing an exposure to the computer science field
- Improved club transparency by documenting all club expectations and recruitment processes
- Led meetings for officers across external relations, technology, and event planning, managed a 74-person student organization, and worked with over 200 middle and high school students