





# JOY DONG

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## Education

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**UNIVERSITY OF CALIFORNIA, BERKELEY | COMPUTER SCIENCE**

**MAY 2021**

- GPA: 3.69
- Coursework: Structure & Interpretation of Computer Programs, Data Structures, Discrete Math & Probability (in progress), Foundations of Data Science (in progress), Web Design (in progress)

## Skills

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- Proficient: Java, Python
- Intermediate: Git, IntelliJ, Scheme, SQL, Latex, HTML/CSS

## Experience

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**LAB ASSISTANT | COMPUTER PROGRAMS | UC BERKELEY, CA**

**JAN. 2018— PRESENT**

- 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
- Met with and tutored students outside of lab to complete projects and other assignments

## Projects

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**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
- Implemented “save and quit” mechanisms through 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

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**ANOVA | EVENTS COMMITTEE CHAIR | UC BERKELEY**

**SEPT. 2017— PRESENT**

- Taught computer science at under-resourced public schools once a week, mentoring 30 students through difficult problems and providing an exposure to the computer science field
- Spearheaded a hackathon planning process, workshop proposals, & company field trip projects
- Coordinated, delegated, and supervised responsibilities to an eight-person committee
- Secured funds and sponsorship through company contacts and Berkeley Crowdfunding initiatives

**SOCIETY OF WOMEN ENGINEERS (SWE) | UC BERKELEY**

**SEPT. 2017— PRESENT**

- Engaged in a supportive community of females in tech that fostered career opportunities through professional development seminars, company workshops, and tech talks

**CS KICKSTART | CAL DAY COMMITTEE | UC BERKELEY**

**JAN. 2018— MAY 2018**

- Branded and publicized CS Kickstart, a computer science boot camp for newly admitted students
- Developed tasks, schedules, and logistics for volunteers on Cal Day to target prospective attendees