

# DEREK WU

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## ABOUT ME

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**Technical Skills** Python, C++, Java, HTML, CSS, SQL, JavaScript, React,  $\text{\LaTeX}$

**Interests** Machine Learning, Computer Vision, Applications Development, Web Development

## WORK EXPERIENCE

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### NASA Ames

Bioinformatics Intern

Mountain View, CA (Summer 2017)

- Collaborated with interns to determine feasibility of induced hibernation as a radiation deterrent
- Used Python and Jupyter to extract gene expression data from Excel and display distributions via heat maps

### Incoming Workday Intern

AppDev Intern

Pleasanton, CA (Summer 2020)

- Cancelled due to COVID-19 pandemic

### Staples

Cashier, Sales Associate

Fremont, CA (Summer 2019)

- In charge of facilitating customer transactions, pushing the Staples Reward Program, blocking the store, selling protection plans, and maintaining a clean, appealing work environment
- Provided high-level customer service through quick decision making and strong communication skills

## PROJECTS AND COMPETITIONS

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### GaucheEats

(Spring Quarter 2019)

- Role: Project Lead, Scrum Master, Lead Programmer
- Lead a team of 5 individuals using agile programming techniques (SCRUM) and multiple 2-week sprints
- Programmed in Python and C++ to implement Caffe-model object detection on images scraped from the UCSB Dining Cam API
- Utilized various AWS technologies to host code, store metrics, and interact w/ users via the Alexa app

### Personal Website\*

(Summer 2020)

- Role: Individual Web Developer
- Used HTML5, CSS3, and JavaScript to construct a responsive website hosted on Github

### IEEE Hackathon Colorfight AI

(May 2019)

- Worked collaboratively to program and test an AI for Colorfight 2, an open source game simulator
- Imitated decision-making with Python: attack enemies, defend against attacks, upgrade personal resources
- Competed in 3 preliminary trials placing 5th, 2nd, and 3rd in a group of 8

## EDUCATION

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### University of California, Berkeley

Berkeley, CA (2020–Present)

- CS-Intended, Junior-Year Transfer
- Cumulative GPA: 4.0
- Coursework (Taken): Struct. of Comp. Programs (**CS61A**), Data Structures (**CS61B**:waived)
- Coursework (Projected): Machine Structures (**CS61C**), Discrete Math (**CS70**), EECS16A

### University of California, Santa Barbara

Santa Barbara, CA (2018–2020)

- B.S. Computer Science, Dean's Honor List
- Cumulative GPA: 3.95, Major GPA: 4.0
- Notable Coursework: Data Structures / Alg. (**CS130A**), Formal Lang / Automata (**CS138**), Comp Architecture (**CS154**), App. Programming (**CS56**), CS Project (**CS48**), Comp. Organization (**CS64**)

## AWARDS

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### The President's Volunteer Service Award: Gold

(Summer 2016)

- Received for my contributions to a variety of non-profit organizations (Ai-Yoh, CAPS, FCSN)

### AP Scholar's Award w/ Distinction

(Summer 2017)

- Received for outstanding performance on AP Testing