Derek Wu

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About Me

Technical Skills C++, Java, Python, HTML, CSS, JavaScript, React, LaTeX
Interests   Machine Learning, Computer Vision, Applications Development, Web Development

Work Experience

NASA Ames
Bioinformatics Intern   Mountain View, CA (Summer 2017)
- Collaborated with interns to determine feasibility of induced hibernation as interspace radiation deterrent
- Used Python and Anaconda to extract gene expression data from an Excel spreadsheet and display distributions via heat maps

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

Personal Projects and Competitions

GauchoEats   (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 2019)
- Role: Individual Web Developer
- Used HTML5, CSS3, and JavaScript to construct a responsive website
- Adaptive design for multiple devices and 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

University of California, Santa Barbara   Santa Barbara, CA (2018–Present)
- B.S. Computer Science, Dean's Honor List
- Cumulative GPA: 4.0
- Technical Coursework: Adv. App. Programming (CS56), CS Project (CS48), Obj. Orient Design (CS32), Comp. Organization (CS64), Problem Solving w/ Computers (CS24), Data Struct + Algor (CS130A), Comp Architecture (CS154)*, Forml Lang + Automata (CS138)*

Ohlone College   Fremont, CA (2017-2019)
- Cumulative GPA: 4.0
- Courses: Intro to C++ (CS102), Intro to Lin. Alg., Calc. w/ Analytic Geometry

Mission San Jose High School   Fremont, CA (2014-2018)
- Cumulative Unweighted GPA: 3.95

Awards

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