Bernie Wang

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Education

University of California, Berkeley   **Fall '15 – Spring '20 (expected)**
Intended: BS: Electrical Engineering and Computer Science (EECS)
GPA: 3.81
Lab Assistant (Fall 2016 - Present): Introductory EE (EE16B)

Technical Course Highlights:

Machine Learning
Artificial Intelligence
Data Structures
Efficient Algorithms and Intractable Problems

Digital Signal Processing
Medical Imaging Signals & Systems
Optimization Models in Engineering

Experience

Amazon.com   **Summer 2018**
Software Development Intern - Subscribe&Save Team   Seattle, WA

- Designed and implemented a feature that allows customers to automatically subscribe to a recommended substitute product when a current product is no longer eligible for Subscribe&Save
- Integrated the feature into the "Manage Your Deliveries" page as a subscription preference using DynamoDB

Perseus Mirrors   **Summer 2017**
Software Engineering Intern   Boston, MA

- Developed a web app where users can customize widgets and what they want to see on the display of their smart mirrors
- Implemented a RESTful API and wrote software for the device that would allow the mirror and web app to communicate with each other

Berkeley Institute of Data Science   **Fall 2016**
Software Engineering Intern   Berkeley, CA

- Reworked blob detection functions in scikit-image, an open-source image processing Python library
- Improved the consistency of accepted parameters among modules and exception handling

Fujitsu Laboratories of America   **Summer 2016**
Research Intern   Sunnyvale, CA

- Researched human-computer interactions in order to learn how enterprises would find useful an automated assistant that would find tools on the web that would increase productivity for employees
- Implemented the enterprise assistant as a web app that helps employees find tools that would solve their work-related issues

Activities and Leadership

Eta Kappa Nu (HKN): EECS Honor Society   **February 2016 – Present**
Tutoring Officer   Berkeley, CA

- Developed a website for a hackathon hosted by HKN for high school students in the Berkeley area.
- Led review sessions for freshman/required EECS courses
- Gave an introduction course to prospective EECS majors in order to foster more interest.
- Provided open-access tutoring for anyone who needs assistance in courses relevant to the EECS curriculum

Research

Adept Lab   **February 2018 - Present**
Undergraduate Researcher, advised by Prof. Kurt Keutzer   Berkeley, CA

- Researched designs for an intuitive LiDAR annotator that can draw bounding boxes efficiently and accurately to train neural networks for autonomous driving
- Developed an open-source 3D LiDAR annotator (see GitHub) using three.js
- Wrote efficiency tests for the annotator that measures the number of self-defined operations and accuracy

Technical Skills

- **Languages:** Python, Java, Javascript, C
- **Frameworks:** NumPy/SciPy, Flask, Tensorflow