Simon Fong

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Objective

Interested in a Summer 2018 Internship in Autonomous Systems, Software Development, and/or Data Science.

Education

University of California San Diego *Sep '15 - Jun '19*
Electrical Engineering BS: Machine Learning Depth
GPA 3.31

Coursework

Intro: Supervised Machine Learning

Linear Systems

Linear Control Systems

Basic Data Structures

Probability

Intro: Unsupervised Learning (Fall 2017)

Intro: Linear & Nonlinear Optimization (Fall 2017)

Neural Networks/ Deep Learning (Fall 2017)

Facial Recognition (Fall 2017)

Skills

Python	**PHP**
C/Arduino	**JavaScript**
Java	**AWS**
Matlab	**Git**
HTML	**MongoDB**

Work Experience

ECE Summer Research Internship *Apr '17 - Present*
Team Lead (3 Students)

- Developing two online courses on using the Dragonboard 410c in Internet of Things applications.
- Creating project assignments that focus on sensor integration and Amazon Web Services.
- Currently mentored by Associate Researcher, Harinath Garudadri.

IEEE UC San Diego Branch *Feb '17 - Present*
Lab Manager, Outreach Officer

- Managed IEEE makerspace to create an organized and well equipped project environment.
- Handled logistics for $5000 worth of renovations.
- Taught technical skills such as soldering, Linux, Java, and Git.

Projects

Sign-In UCSD *Sep '17 - Present*
Full-Stack Web Development

- Developing a simple sign-in system that allows for efficient data collecting and tracking.
- Using Python and Flask for the backend, MongoDB for the database, Jinja2 for templating, HTML and CSS for the frontend.

SD Hacks (1st Place) *Nov '16 - Jun '17*
Bubble Wrap Ice Box 3000

- Smart fridge that recognizes what you put inside it.
- Retrained a pre trained neural net to recognize sodas, apples, and water bottles.
- Tensorflow for model, Python for image scraping, Flask for backend, MongoDB for database.

IEEE Projects Competition (3rd Place) *Oct '16 - Nov '16*
Team Lead (4 Students)

- Developed a heart rate analysis system.
- Programmed a Raspberry Pi and Arduino to measure heart rate and display on a website.
- Used Python and Arduino for data gathering.
- Used HTML, CSS, PHP, and MongoDB for displaying data.