Darren Lee

10610 Tuggle Place, Cupertino, CA 95014 | darrenlee@berkeley.edu | 1 (408) 550-5349
website: darrenlee2.github.io | github: /darrenlee1 | linkedin: /in/darrenlee2

EDUCATION

University of California, Berkeley *8/2016 – 5/2019 (expected)*

Electrical Engineering and Computer Sciences (EECS), B.S. GPA: 4.0 (tech.), 3.93 (cum.)

- Regents' and Chancellor's Scholar (top 1% of class)
- HKN (EECS Honor Society) member (among top achieving EECS students)

Coursework:

CS 188: Artificial Intelligence (Spr. 18)	CS 189: Machine Learning	CS 70: Discrete Math & Probability Theory
EECS 126: Probability/Random Processes (Spr. 18)	CS 170: Efficient Algorithms	EE 16B: Information Devices & Systems II
EECS 127: Optimization Models (Spr. 18)	CS 61C: Computer Architecture	EE 16A: Information Devices & Systems I
PHYS 7B: Electricity/Magnetism (Spr. 18)	CS 61B: Data Structures	MATH 54: Linear Algebra/Differential Equations

Skills: Java, Python, JavaScript, C, C++, HTML/CSS, SQL, git/unix

EXPERIENCE

Yahoo! Inc. **Software Engineering Intern** *5/2017 – 7/2017*

- Redesigned and rebuilt a developer-facing search website for yahoo-internal and external npm modules from scratch using Node.js with Express and Handlebars as a full stack framework
- Utilized Vespa (yahoo's internal search engine) with YQL to optimize search, implemented caching of package metadata, wrote unit tests to verify code correctness, and implemented metrics to track performance
- Designed and created a security-check tool for Yahoo's cybersecurity team to reduce JavaScript/Node security vulnerabilities by identifying underlying packages/libraries used at the application layer that have security risks
- Addressed evolving requirements by adding support for multiple, configurable security algorithms and reporting methods, and developed functionality for the tool to be used as both a command line utility and a library

Cal Launchpad **Project Developer** *1/2017 – 5/2017*

- Worked with the Amazon AI Team to build a convolutional neural net in Tensorflow for real-time food classification
- Developed and trained a CNN using the LeNet architecture on a dataset containing 10,000 images of foods
- Implemented computer vision algorithms for real-time hand tracking using OpenCV in Python

BMC Software **Software Development Intern** *12/2016 – 1/2017*

- Built and integrated a timeline widget for BMC Innovation Studio using AngularJS
- Applied skills in software development lifecycle and product management, including Agile Methodology

De Anza College **Computer Technical Support Lab Intern** *4/2016 – 6/2016*

- Refurbished old computers to provide to low income De Anza College students
- Provided technical support by diagnosing and solving both hardware and software issues for other students

PROJECTS

Order of the Wizards *11/2017*

- Modeled and solved an open-ended NP-hard constraint satisfaction problem involving determining a correct relative ordering of wizards by age, given a set of binary constraints
- Wrote an efficient min-conflicts local search algorithm in Python that could solve large input files within several hours that tied for 1st place (out of 300+ entries) in CS 170's final project competition

Urban Dictionary Chrome Extension *1/2017*

- Built and released an elegant chrome extension that allows users to easily view Urban Dictionary definitions while browsing the web (chrome web store: https://goo.gl/NO7o57)
- Used JavaScript and jQuery for popup and context-menu functionality, and YQL for web scraping

Scheme Interpreter *11/2016*

- Created a basic Scheme interpreter in Python that uses "read-eval-print-loop" to parse and evaluate Scheme expressions and uses tail recursion to optimize for recursive procedures
- Used Scheme to create randomly generated recursive art that won 2nd place (out of 32 entries) in CS 61A's Scheme Recursive Art Contest