vucourtney@berkeley.edu
Github: vucourtney | courtneyvu.com
(949) 275-6213

Courtney Vu

Education:

University of California, Berkeley | Berkeley, CA | Aug 2014 - May 2018

Major: Computer Science
Technical GPA: 3.88

Relevant Coursework:

Efficient Algorithms/Intractable Problems	Databases	Machine Learning
User Interfaces and Design	Data Structures	Probability Theory
Artificial Intelligence	Computer Security	

Work Experience:

Software Engineering Intern, Google | May 2017 - Aug 2017

- Create debugging tool compatible with 40+ types of Play Store requests, which can be extended into a generalized A/B testing tool to measure click-through rate and purchase improvements
- Add feature to increase code coverage of testing framework used by Google Play Store developers
- Improve frontend feature for a debugging/logging tool used by 30+ systems companywide

Software Engineering Intern, Google | May 2016 - Aug 2016

- Iteratively design and implement a feature to optimize performance for Google Drive backend
- Contribute to design decisions for new product launch targeting enterprise customers

Undergraduate Student Instructor, Discrete Math + Probability Theory | Jan 2016 - Present

- Lead discussion sections of 40-60 people to supplement lecture material, hold weekly office hours
- Create worksheets and homework/exam problems, answer student questions on online forum

Projects:

Handwriting Classification [Python] | April 2017

- Neural net with one hidden layer to classify handwritten letters with 87.4% accuracy
- Improved performance by optimizing hyper-parameters and making computations more efficient

B+ Trees [Java] | March 2017

- Implemented B+ Tree for efficient database insertions, entry lookups, and sorted scans
- Tool determines efficient plans for database queries by estimating costs with dynamic programming

ElectMe [Java, XML for Android] | March 2016

- Smartphone-smartwatch application that uses location data and APIs to display 2012 vote statistics, Congressional involvements, and social media for relevant legislators (focus on user-first design)

Skills:

Python	C/C++	HTML/CSS/Javascript
Java	Latex	Git

Leadership:

Chief of Online Resources, ASUC Senate Offices (Student Government) | Aug 2015 - May 2017

- Led team of 5 committee members, initiate projects to obtain and publicize resources for students

Officer, Upsilon Pi Epsilon, the Computer Science Honors Society | May 2015 - Dec 2015

- Contributed to organizing networking, social, and professional development events

Honors:

UC Berkeley College of Letters and Science Dean's Honors List | Fall 2015, Fall 2016