

Utkash V. Dubey

Los Altos Hills, CA 94022 | utkashd@gmail.com | 650.804.0649

SUMMARY

Graduate student in computer science with undergraduate degrees in applied math and computer science. Industry experience in quantitative research, software engineering, machine learning, data analysis.

EDUCATION

University of Pennsylvania

Master of Science in Engineering in Computer & Information Science

Philadelphia, PA

Expected Jun. 2020

University of Southern California

Bachelor of Science, Computer Science

Bachelor of Science, Applied & Computational Mathematics

Los Angeles, CA

Conferred Dec. 2017

Conferred Dec. 2017

PROJECTS

Coop: A (in-progress) Python project that aims to solve real-world traffic problems through customized, lane-level algorithms and the pending advent of self-driving cars. Uses *networkx*, *numpy*, and *scikit-learn* in Python.

Worth: A toy web application that visualizes a user's personal finances. Employs PHP, JavaScript, SQL, and other web-specific languages and tools. <https://github.com/mgauderman/Worth>

MyStockPortfolio: A toy web application for users to track an investment portfolio. Employs PHP, JavaScript, SQL, and other web-specific languages and tools. <https://github.com/derrickchoi/MyStockPortfolio>

TECHNICAL SKILLS

Python 2.7 (*pandas*, *scipy*, *numpy*, *scikit-learn*), Java, C++, Scheme, web development (HTML, CSS, JavaScript, PHP, SQL, jQuery), software testing (PHPUnit, Jasmine), Matlab, version control (Git), LaTeX

WORK EXPERIENCE

Susquehanna International Group

Trading Intern

Bala Cynwyd, PA

Summer 2017

- Worked with quants, traders to optimize existing trading strategies, formulate new strategies.
- Designed, researched, backtested algorithmic trading strategies in cryptocurrency and equities markets.
- Regularly presented research findings to team of traders, quants, desk heads.
- Studied fundamentals of option theory, including pricing, Greeks, mock trading.

VMware

Software Developer Intern

Palo Alto, CA

Summer 2016

- Built an internal analytics application to visualize data from LCM, for managers and developers. Saw project through completion: Presented prototype, worked with data collection team, set up streaming crunch jobs.
- Wrote sanity-check logic for LogInsight upgrades in LCM production code.

Information Sciences Institute (ISI)

Research Intern

Marina del Rey, CA

Summer 2015

- Employed distributed programming to improve performance for intelligence training in Karma. Karma is a machine-learning data-organization software by ISI.

VMware

Software Developer Intern

Palo Alto, CA

Summer 2014

- Fixed several critical bugs for the Cloud Management Console, vCloud Air.
- Implemented unit testing, wrote unit tests for vCloud Air, drove a test-driven development mindset.

VMware

Software Developer Intern

Palo Alto, CA

Summer 2013

- Wrote ExtJS4 code for vCloud Air and its activity logging features. Fixed bugs.

Gunn Math Circles (High School Competitive Math Club)

President

Palo Alto, CA

2012 to 2013

- Led weekly discussions on various topics in contest math: Algebra, combinatorics, probability, proof methods, number theory, game theory, inequalities, geometry.

The Oracle (High School Student Newspaper)

Editor-in-Chief

Palo Alto, CA

2012 to 2013

- Managed a staff of over 50 reporters, editors, photographers, graphics artists to produce a monthly newspaper.