Theodore Tran

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github.com/ttran428

Education

University of California, Berkeley | May 2020

GPA: 3.75/4.0

- Bachelor of Arts(B.A.) in Computer Science
- Industrial Relations officer for Upsilon Pi Epsilon(CS Honors Society)
- Completed Coursework: Data Structures, Efficient Algorithms, Computer Architecture, Computer Security, Convex Optimization Models and Applications, Discrete Mathematics and Probability, Linear Algebra
- Current Coursework: Artificial Intelligence, Machine Learning, Probability and Random Processes

Experience

Illumio |Software Engineering Intern *June 2018-Present*

- Implemented an API to allow users to squelch/hide network traffic flows from Illumination map based on versatile rules set by the user
- Stored traffic data in Redis efficiently by compressing overlapping rules to save space and allow quicker lookup
- Designed API to be able to extend to future node types rather than just workloads, virtual servers, and IP Lists

Berkeley Institute of Data Science |Undergraduate Researcher *June 2017-Present*

- Developed an OSS DevKit to increase efficiency for open source contributors to scikit-image
- Created a command line interface for Github for manipulating pull requests using Python libraries such as Click and PyGithub to improve command line workflow and using Travis CI for continuous integration testing

UC Berkeley Sociology Department | Data Science Developer *June 2017 -October 2017*

- Integrated a data science project into Sociology 130AC course using Jupyter Notebooks, NumPy and pandas
- Analyzed social disorder in nearby census tracts by crowdsourcing student data using simple linear regression

UC Berkeley EECS Department | Tutor/Reader *January 2018-Present*

- Help students with concepts and grade homework for CS170(Efficient Algorithms) and CS70(Discrete Math)

Projects

File Share *(Python)*

- Developed a secure efficient file sharing client using a malicious storage server and trusted public key server

BearMaps *(Java)*

- Constructed the back end of an app to compute the best path between locations in Berkeley

Yelp Camps *(Full Stack)*

- Devised a website that crowdsources campground reviews using Node.js, Express.js, and Mongoose

Num-C *(C)*

- Implemented a version of NumPy that sped up matrix operations 50x compared to a naive implementation using SIMD, OpenMP, and other performance techniques

Database System *(Java)*

- Designed and coded a basic database system from scratch that uses a domain language similar to SQL

Extracurricular Activities

Cal Table Tennis | Head Coach, Silver Medalist Collegiate Team in USA *Aug 2016 – Present*

- National Men's Doubles Champion, North American Team Champion, National Collegiate Regional Champion

Skills

Languages and Tools: Python, Java, C, Ruby, SQL, Git, HTML/CSS/Javascript