

# TEDDY TRAN

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## EDUCATION

### University of California, Berkeley | May 2020

GPA: 3.7/4.0

- Bachelor of Arts in Computer Science
- Completed Coursework: Data Structures, Efficient Algorithms, Machine Learning, Probability and Random Processes, Computer Architecture, Computer Security, Artificial Intelligence, Convex Optimization Models and Applications, Discrete Mathematics, Linear Algebra, Functional Programming, Abstract Algebra
- Fall Coursework: Operating Systems, Tech Entrepreneurship, Intro to Circuits

## EXPERIENCE

### Freemove, Inc. | Software Engineering Intern

June 2019-August 2019

- Developed an automated pipeline to ingest blood sample data from research organizations to the database
- Created an abstract class for parsing data from research organizations to standardize input format
- Constructed a platform to provide custom data validation before sample ingestion

### Illumio, Inc. | Software Engineering Intern

June 2018-August 2018

- Designed a REST API to allow users to squelch/hide network traffic flows from Illumination map to deal with information overload
- Compressed overlapping rules when storing data in Redis to accelerate lookup speed and save memory
- Converted workload based squelching to a label based system to increase scalability

### UC Berkeley EECS Department | Teaching Assistant and Reader/Tutor

January 2018-Present

- Teach discussion sections to ~30 students and hold office hours weekly for CS170 (Efficient Algorithms)
- Help students on concepts and grade homework for CS170 (Efficient Algorithms) and CS70 (Discrete Math)

### Berkeley Institute of Data Science | Undergraduate Researcher

June 2017-Dec 2018

- Engineered an OSS DevKit to increase efficiency for open source contributors to scikit-image
- Developed 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

## PROJECTS

### File Share (Python)

- Devised a secure file storage client using a malicious storage server and trusted public key server that features file sharing with other users and permission revocation
- Implemented Merkle tree data structure to store files allowing for efficient updates on modified files

## EXTRACURRICULAR ACTIVITIES

### Cal Table Tennis | President, Silver Medalist Collegiate Team in USA

Aug 2016 – Present

### Upsilon Pi Epsilon (CS Honors Society) | Industrial Relations Officer

May 2018 –June 2018

## SKILLS

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