

# Eric Tang

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erictang000.github.io

## EDUCATION

**UC BERKELEY**  
BS IN ELECTRICAL  
ENGINEERING AND  
COMPUTER SCIENCE  
August 2018 - Present |  
Berkeley, CA  
College of Engineering  
Cum. GPA: 3.84 / 4.0  
Major GPA: 3.97 / 4.0

## COURSEWORK

### UNDERGRADUATE

\*Machine Learning

\*Optimization Models

*\*In progress*

Computer Architecture

Efficient Algorithms

Computer Security

Operating Systems

Data Structures

Multivariable Calculus

Info Devices and Systems

Linear Algebra

Discrete Math and

Probability

## SKILLS

### PROGRAMMING

Java • Python • C •

Assembly • Golang • SQL

• CSS • HTML • Swift

### FRAMEWORKS AND LIBRARIES

Numpy • Pandas •

OpenMP • Sklearn •

NetworkX • OpenCV •

Django

## EXPERIENCE

### ACCENTURE LABS | TECHNOLOGY R&D INTERN

June 2020 - August 2020 | San Francisco, CA

- Worked on the Systems and Platforms team on a **generative design** project centered around optimizing warehouse layouts using continuous time Markov Chain simulations of robotic agents for real time congestion modeling.
- Designed and implemented layout generation, evaluation, and optimization algorithms in **Python** for scoring of the warehouse layouts using graph representations of the space.

## RESEARCH

### UC BERKELEY EECS - DAWN SONG GROUP

August 2020 - Present | Berkeley, CA

- Working on creation of benchmark dataset for predicting human emotional responses to visual stimuli with deep neural networks under Dan Hendryks and Prof. Dawn Song.

### UC BERKELEY PHYSICS - CROMMIE GROUP

April 2019 - August 2020 | Berkeley, CA

- Worked on optimization of Monte Carlo simulations of CTRW and FBM models of atomic scale subdiffusive behavior at device surfaces using **numpy**, **pandas**, and **scipy**, and developing optimized molecule orientation classification algorithms on time series image data.
- Assisted in fabrication of graphene based devices for study of diffusive properties at surfaces. Co-author pending publication - Imaging Gate-tunable Molecular Density on a Graphene Transistor.

### LBNL MOLECULAR FOUNDRY - RAJA GROUP

Feb 2020 - May 2020 | Berkeley, CA

- Worked on development of **ScopeFoundry** python library for automation of the assembly of 2D devices. Helped design pipeline for interfacing with various hardware components, using object segmentation to identify monolayer materials for transfer, and using autofocus for increased ease of the transfer process.

## TEACHING

### CS 61B - DATA STRUCTURES | UNDERGRADUATE STUDENT INSTRUCTOR

January 2020 - Present | Berkeley, CA

- 3x TA for Data Structures. Teach weekly sections, hold office hours, for course of 1500 students. Develop and maintain course autograder software ASAG using **Docker** and **AWS**.

## PROJECTS

### THE DAILY CAL APP

Winter 2020 | Xcode, Swift, Alamofire

- Developed backend for native IOS app using **Alamofire** and **Core Data** written in **Swift**.

### PINTOS OS | OPERATING SYSTEM

Spring 2020 | C

- Designed and implemented a **file system**, **userspace programs + syscalls**, **scheduling algorithms**, **user space allocator**, and **synchronization primitives** in a team of four.