

# Ethan J. Shang

Email: [ethanshang@berkeley.edu](mailto:ethanshang@berkeley.edu)  
Website: [ethanjshang.github.io](https://ethanjshang.github.io)  
LinkedIn: [linkedin.com/in/ethanjshang/](https://linkedin.com/in/ethanjshang/)  
US Citizen

## Education

**University of California, Berkeley**, Class of 2021, *Cum laude*, GPA: 3.86, Computer Science GPA: 3.91

**Major:** Electrical Engineering & Computer Science, College of Engineering **Minor:** Data Science

## Employment and Work Experience

### Microsoft | Program Manager

March 2021 - Platform PM for Viva Insights. Specializing in privacy, data-handling, and monetization.

### Microsoft | Program Manager Intern

Summer 2020 Transformed business intelligence data to actionable solutions for executives. Analytics of Azure-based organizational metadata to enhance workplace productivity. Launched features that reached 1.8 million users and unlocked new analytics for 90,000 users.

### Microsoft | Software Engineer Intern

Summer 2019 Office 365 product development using Microsoft Azure cloud services to transform big data into enterprise- and personal-level productivity services with machine learning features; Delivered workplace analytics for engagement and efficiency, reached 100+ million users

### University of California, Berkeley | Department of Electrical Engineering and Computer Science

Spring20-Fall20 Head Student Instructor: managed 19-person course staff for Database Systems (650 students). Coordinated crisis management and transition to distance-learning during COVID-19.

Fall19 semester Student Instructor: salaried course staff for Database Systems (~750 students)

### Lawrence Livermore National Laboratory | Software Engineering Intern

Summer 2018 Data analytic tool to improve supercomputer performance—automate analysis by integrating disparate data; created query language and parser for queries via web-based dashboard

Summer 2017 Data mining of the Department of Energy's vast network to improve threat detection and network security; Leadership role in building autonomous analytics from the ground up

## Skills and Abilities

- **Programming languages:** Java, Python, C, C#, C++ , Swift, Scala, Bash, SQL, Scheme
- **Big Data:** Automation, Pandas, NumPy, datamining, query design, machine learning
- **Coursework:** UX/UI Design, Artificial Intelligence, Operating Systems, Database Systems, Data Structures, Efficient Algorithms, Principles of Data Science, Computer Architecture, iOS Development

## Leadership Experience

**University of California, Berkeley | Head Student Instructor** 2019–2020

Manage a 19-person course staff for CS 186: Database Systems with an enrollment of 650 students

**Regents' and Chancellor's Scholars Association | Corporate Relations Officer** 2019–present

Build partnerships with industry leaders, foster professional development; Notable partners: Tesla, GoDaddy

**Lawrence Livermore National Laboratory | Technical Lead** May – Aug. 2017

Managed development of analytics tool collaboratively, interfaced with team members of diverse disciplines

## Notable Awards

- UC Berkeley Regents' and Chancellor's Scholarship — Top 3% of Berkeley students
- Member of Eta Kappa Nu — National Electrical Engineering and Computer Science Honor Society
- Outstanding Graduate Student Instructor, (during junior year) 2020
- Accel Scholar — industry-focused, highly-selective mentorship program hosted by VC Firm Accel
- Certificate — Entrepreneurship and Technology, U.C. Berkeley Sutardja Center