

# Ethan J. Shang

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US Citizen

**Profile:** Innovator and leader in the design and development of user-facing, data-driven products that leverage cloud services and artificial intelligence, with interest in production management

## Education

**University of California, Berkeley**, Class of 2021, GPA: 3.76, Computer Science GPA: 3.86

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

## Employment and Work Experience

### Microsoft | Software Engineer Intern

Summer 2020 Product Manager Internship. Upcoming in Summer 2019.

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

Sp20 semester Head Student Instructor: managed 18-person course staff for Database Systems (700 students)

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

Sp19 semester Computer Science Mentor: course staff for Data Structures

Sp18 semester Research Assistant for RISELab: streamline and integration of machine-learning techniques

### 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

Summer 2016 Network data monitoring of mobile devices to improve workplace efficiency

## Skills and Abilities

- **Programming languages:** Java, Python, C, C#, C++ , Swift, Scala, Bash, SQL, Scheme
- **Big Data:** Automation, Pandas, NumPy, datamining, query design, resource-management applications
- **Coursework:** Artificial Intelligence, Efficient Algorithms, Database Systems, Principles of Data Science, Data Structures, Computer Architecture, Operating Systems, Discrete Math and Probability, iOS Development

## Leadership Experience

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

Upcoming: Manage an 18-person course staff for CS 186: Database Systems with an enrollment of 700 students

**Product team lead | iOS app “Check-Mate”** 2018–present

Cloud-based cost-sharing tool with integrated messaging and payment requests using Firebase  
(*Award:* Most Innovative App, voted by UC Berkeley faculty)

**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
- UC Berkeley Dean's List, 2018-2019
- California Legislature Assembly Certificate of Recognition, 2017