Ethan J. Shang

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US Citizen

Education

University of California, Berkeley, Class of 2021, 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-   Beginning in March 2021.

Microsoft | Program Manager Intern

Summer 2020   Transformed business intelligence data to actionable solutions for executives. Analysis 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 user-facing product development using Azure cloud services to transform big data into enterprise- and personal-level productivity services with machine learning features; Delivered interactive workplace analytics for engagement and efficiency to 19 million users.

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

Spring20–Fall20   **Head Student Instructor**: managed 19-person TA 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

- **Product Management**: UI/UX, user testing, multi-disciplinary collaboration, product roadmap
- **Software Engineering**: Java, Python, C, C#, C++, Swift, Scala, Unix, Git, databases - SQL, cloud infrastructure - GCP, agile development - requirement analysis, design, testing, APIs, non-blocking, thread-safe development
- **Data Science**: Pandas, NumPy, data quality analysis, data mining, machine learning, Map Reduce, Spark
- **Coursework**: Artificial Intelligence, UX/UI Design, Operating Systems, Database Systems, Data Structures, Efficient Algorithms, Principles of Data Science, Computer Architecture, iOS/Android 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 and Recognitions

- 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, 2020; UC Berkeley Dean's List, 2018-2020
- Accel Scholar — industry-focused, highly-selective mentorship program hosted by Accel (VC firm)
- Certificate — Entrepreneurship & Technology, U.C. Berkeley Sutardja Center