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 machine learning, with interest in production management

Education

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

Dean's List ✧ *Regents' and Chancellor's Scholar*

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

Employment and Work Experience

Microsoft | Software Engineer Intern

Summer 2019   Office 365 product development using Microsoft Azure cloud services. Transformed big data into enterprise- and personal-level productivity services with machine learning features.

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

Fall19 semester   Student Instructor: salaried course staff for Database Systems (~700 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 via web-based dashboard

Summer 2017   Data mining and autonomous analytical tool to improve threat detection (team lead)

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, aggregation, datamining, query design, and resource-management applications
- **Network Security**: Data mining, packet/protocol analysis, encryption, cryptography, wireless penetration
- **Coursework**: Efficient Algorithms and Intractable Problems, Intro to Database Systems, Principles of Data Science, Data Structures, Computer Architecture, Designing Information Devices and Systems, Discrete Math and Probability, Electricity and Magnetism, iOS Design/Development

Leadership Experience

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)

Livermore Area Youth Advisory Commission | Commissioner   2015–2017

Leadership role on citywide commission to help youths in underserved demographics with academic pursuits

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
- National Merit Scholarship Finalist — <1% of U.S. high school seniors
- California Legislature Assembly Certificate of Recognition, 2017
- National Certificate of Merit in Piano, Level 10; Fusion Soccer Athlete-Scholar of the Year
- Recipient of seven merit-based scholarships in science and engineering