Ethan J. Shang

Cell: (925) 321-9181 email: ethanshang@berkeley.edu website: ethanjshang.github.io 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 \Leftrightarrow 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 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

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—automate analysis by integrating
	disparate data; created query language and parser for queries via web-based dashboard
Summer 2017	Data mining and assessment of the Department of Energy's vast network to improve threat
	detection; Leadership role in developing autonomous analytical software from the ground up
Summer 2016	Network data monitoring of mobile devices to improve workplace efficiency

Skills and Abilities

- o Programming languages: Java, Python, C, C#, C++, Swift, Scala, Bash, SQL, Scheme
- o Big Data: automation, aggregation, datamining, query design, and resource-management applications
- o Network Security: Data mining, packet/protocol analysis, encryption, cryptography, wireless penetration
- O Coursework: Efficient Algorithms, Database Systems, Principles of Data Science, Data Structures, Computer Architecture, Operating Systems, Discrete Math and Probability, 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
- o California Legislature Assembly Certificate of Recognition, 2017
- o National Certificate of Merit in Piano, Level 10; Fusion Soccer Athlete-Scholar of the Year
- o Recipient of seven merit-based scholarships in science and engineering