

Albert Yiliang Li

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EDUCATION

University of Illinois at Urbana-Champaign

May 2022

B.S. in Computer Science, Minor in Statistics | James Scholar Honors in Engineering

GPA: **3.93** / 4.00

Relevant Courses: Distributed Systems, Computer Security, Database Systems, UI Design, Algorithms, System Programming

EXPERIENCE

Facebook

August 2021 – November 2021

Software Engineer Intern

Menlo Park, CA

- Incoming SWE Intern at Facebook for Fall 2021

Salesforce: Tableau Software

May 2021 – August 2021

Software Engineer Intern

Seattle, WA

- Incoming SWE Intern at Tableau for Summer 2021

Motorola Solutions

June 2020 – Present

Software Engineer Intern

Champaign, IL

- Designed ExpressJS backend cloud service for a radio tower monitoring mobile app, integrated with an Apache Kafka stream for real time notifications, Azure SQL Server, and Kubernetes
- Assisted in building CI/CD pipeline for Node services in Docker and K8 clusters on Azure DevOps
- Improved phone battery life and server load by caching recurring results in SQLite databases on mobile devices

Caterpillar

August 2019 – May 2020

Software Engineering Co-Op

Champaign, IL

- Increased efficiency of data lookup from 30+ minutes to seconds for 1100+ engineers by building an internal Angular web platform with a Python API, MySQL connection, and OAuth2 authentication
- Cooperated with users and customers to build dynamic data visualizations of financial and equipment data

Ameren

May 2019 – August 2019

Software Engineering Intern

Champaign, IL

- Created a project management web dashboard for analysts using Angular, Python Flask API, and OracleDB

PROJECTS

UIUC Diversity | Data visualization showing racial disparities of every major

lialbert.com/uiuc-diversity

- Processed 15 years of data to build dynamic visualizations of demographics using d3.js, TypeScript, and Python
- Highlighted historical racial trends across colleges and majors through user interaction

Tangram | Android/iOS social media app with hyperlocal video feeds

github.com/albearli/tangram

- Integrated MySQL and Neo4j Graph DB schema on AWS, creating 4-directional swiping of videos based on location
- Developed RESTful API layer interfacing databases and identifying clusters of posts on map in Golang and Python

INVOLVEMENT

CS 196: Freshman Honors | Course Staff

January 2020 – May 2021

- Mentored 3 groups of students as Project Manager to produce full stack apps: video transcription web service in React, mobile app giving safest walking routes in cities, and mood tracking mental health web app in React
- Created and deployed website (cs196.cs.illinois.edu) on Apache and built grading automation for 200 students

Pulse 2020: Visions | Staff – Website Committee

May 2019 – January 2020

- Organized large student-run tech conference by developing event website in React

CS 125: Introduction to Computer Science | Course Assistant

January 2019 – May 2019

- Directed weekly lab sections of 30 students and held office hours and forum for class of 500+ students

SKILLS

Languages: Python, C++, JavaScript, TypeScript, Java, SQL, Shell

Technologies: Angular, React, Node.js, Flask, MySQL, MongoDB, Neo4j, Flutter, Linux, Git, Kubernetes