

# Albert Yiliang Li

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## EDUCATION

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### 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

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

## EXPERIENCE

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### 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

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**UIUC Diversity** | Data visualization showing racial disparities of every major

[lialbert.com/uiuc-diversity](http://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](https://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

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**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](http://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

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

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