

SOOYEON OH

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EDUCATION

University of California, Berkeley

Aug. 2019 – May 2023

B.A. COMPUTER SCIENCE

Berkeley, CA

GPA: 3.81/4.00

Coursework: Data Structures, Algorithms, Machine Structures, Databases, Operating Systems, Artificial Intelligence, Data Science, Web Design

Activities: President at FEMTech, Design Developer at Web Development @ Berkeley

EXPERIENCE

MongoDB

June 2022 – Aug. 2022

SOFTWARE ENGINEERING INTERN | CLOUD INSIGHTS & TELEMETRY

New York, NY

- Implemented features to improve the quality of index and schema suggestions to increase database performance on slow queries
- Developed process to detect invalid query operations for index suggestions by filtering nested BSON structures after parsing log lines
- Added filter expression support for fine tuning metric and log ingestion on the cloud automation agent based on operation time and efficiency

Lyft

Jan. 2022 – Apr. 2022

SOFTWARE ENGINEERING INTERN | PAY PROCESSING

San Francisco, CA

- Built an end-to-end acceptance test for critical user flow processes that gates service deployments. Incorporated generating statistics for monitoring/debugging card tokenization process
- Investigated integrations with 5 payment providers. Held cross-team meetings to discuss failure scenarios and business metrics. Used findings to design a solution for increasing refund success rate by 40%
- Created dashboards using data visualization tools such as Kibana, Grafana to monitor metrics

Thermo Fisher Scientific

Jun. 2021 – Aug. 2021

SOFTWARE ENGINEERING INTERN | CELL IMAGING & MICROSCOPY

Bothell, WA

- Transformed a live data stream into a video stream while overlaying deep learning generated cell visualizations. Created a web app that connects to a microscope camera via SDK to output video stream and overlay to browser.
- Improved image rendering speed by 4x with multithreading and double buffering
- Ported an existing desktop app to a web app using Blazor, a web framework, as a proof of concept

PROJECTS

CalDates | REACTJS

Oct. 2021

- Developed the frontend for a blind dating web app for UC Berkeley students to meet based on personality and interests rather than physical appearance

Live Together | HTML/CSS, REACTJS, JAVASCRIPT, NODE.JS, MONGODB

Jun. 2021

- Built a full-stack web app with a centralized platform for housemates to communicate and reduce conflicts that stem from sharing a home
- Developed authentication logic, responsive dashboard, and grocery list building using a recipe API

SKILLS

Programming Languages: Python, Java, JavaScript, HTML/CSS

Technologies: ReactJS, Node.js, Blazor, MongoDB, Grafana, Kibana

Technical Skills: Database optimizations, data transformations, microservices, metrics, multithreading, web development