

IZZIE LAU

isabellalau@berkeley.edu ✉ Berkeley, CA ✉ (626) 818 - 9445

LinkedIn [/izzielau](#) ✉ Github [/izzielau](#)

EDUCATION

University of California, Berkeley

Expected: May 2022

Computer Science (B.A.), Cognitive Science (B.A.), Minor in Data Science (B.A.)

Coursework: Efficient Algorithms and Intractable Problems, Artificial Intelligence, Data Structures, Database Systems, Principles & Techniques of Data Science, Linguistic Science, Probability & Risk Analysis, Quantitative Finance, Machine Structures

PROFESSIONAL EXPERIENCE

Frontend Engineer

Oct 2020 - Present

sproul.club (<https://www.sproul.club/>)

Berkeley, CA

- Working with React for a website startup with 500+ weekly users that brings transparency to Berkeley's club ecosystem.

Data Science Analyst

Aug 2020 - Present

McBride Sisters

Berkeley, CA

- Analyzing data of inventory purchases and Google Analytics to build consumer profiles and a recommendation portfolio using Jupyter notebooks, Pandas, and other data science libraries.

Machine Learning Intern

May 2020 - Aug 2020

Microsoft

Sunnyvale, CA

- Developed and trained a ML model using Python, PyTorch, & TensorBoard to improve the effectiveness of Bing search results.
- Designed metrics and test datasets to evaluate the model's performance and effectiveness using Python & SQL.

Backend Engineer

Aug 2019 - Aug 2020

BerkeleyTime (<https://berkeleytime.com/>)

Berkeley, CA

- Worked with Python and Django to maintain the backend of a website tool for students to explore classes at UC Berkeley.
- Led implementation of autodoc and Google authentication features into the codebase for accessibility and personalization.

Software Engineering Intern

May 2019 - Aug 2019

Microsoft

Sunnyvale, CA

- Designer and full-stack developer of React/Node.js web tool for over 5,000 Bing employee users to query internal databases.
- Engineered HTTP request translator and integration with external APIs to incorporate the primary functionality of the app.

Backend Developer

Jan 2019 - Aug 2019

Ford Motor Company

Berkeley, CA

- Contracted by Ford to build a multi-platform app for drone pilots to visually find restricted or accessible flight areas.
- Led backend development to parse shapefiles in ArcGIS/AppLink to work with iOS frontend in XCode/Swift/Objective-C.

Software Engineering + Product Design Intern

May 2018 - Aug 2018

aiPod @ Idealab

Pasadena, CA

- Led the product research and programmatic design of a commercial infrastructure sensor package for autonomous vehicles.
- Implemented and analyzed OpenCV object detection/classification algorithms on different operating systems and setups.

LEADERSHIP EXPERIENCE

Chair of Design

May 2020 - Present

AFX Dance

Berkeley, CA

- Lead designer of visual marketing materials for the expansive reach of social media channels (Facebook, Instagram, YouTube) owned by AFX, the largest dance organization on campus with ~1,000 students using Adobe Illustrator.

Tech Fair Director & Marketing Chair

Aug 2019 - Dec 2019

Berkeley Tech Fair

Berkeley, CA

- Led a team of twelve students to ideate and execute the branding and marketing of the Mobile Developers of Berkeley (MDB) and the launch of the Berkeley Tech Fair, the Bay Area's premiere showcase for products built by students and startups.

PROJECTS

- Product Manager of earSighted**

An iOS application that trains visually-impaired users how to locate location and direction of movement using auditory cues.

- Project Manager of Caffeine the Robot**

Led the narration, illustration, and launch of a children's book on Amazon that inspires young girls to pursue STEM.

Skills: iOS (Swift), Frontend (React/Redux), Backend (Python, Django), Machine Learning (PyTorch, Tensorboard), Google Analytics, Data Analytics (Python, Jupyter, Pandas), Virtual Reality (Unity), Product Design, Graphic Design (Illustrator, Figma)