

# Luke Sarausad

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## EDUCATION

### University of Washington

Seattle, WA

*Bachelor of Arts in Computer Science (Data Science Concentration), Minor in Business*

*Expected June 2027*

- **Relevant Coursework:** Software/Hardware Interface, Discrete Math, Software Design/Implementation, Calculus I-III, Introductory Programming
- **Dean's List:** Fall 2023, Winter 2024, Spring 2024
- **Extracurriculars:** Software Engineering Career Club, Algorithmic Trading Club, Open Minds Consortium Lab
- **GPA:** 3.84

## EXPERIENCE

### Undergraduate Research Assistant

September 2024 – Present

*University of Washington*

*Seattle, WA*

- Assisted in developing mobile software interfaces for the Open Minds Consortium Lab, enabling wireless data streaming from implantable neurostimulation devices to an external mobile device.
- Contributed to creating tools that facilitate real-time monitoring and analysis of cortical and subcortical field potential activity from neurostimulation hardware.
- Designed, tested, and developed the interface using Flutter and Dart and ensured enhanced user experience and functionality for researchers
- Utilized Python for building data processing pipelines that interface with mobile sensors, ensuring accurate and efficient data collection for research experiments

### Software Engineer Intern

Aug. 2023 – Nov. 2023

*Mentee*

*Remote*

- Engineered software to integrate data from Typeform/SurveyMonkey into an Amazon DynamoDB database, facilitating the pairing of college mentors and mentees based on matching preferences such as availability and areas of interest.
- Analyzed user data stored in JSON format and developed a data pipeline to integrate various aspects of the data into DynamoDB
- Utilized Zapier for enhanced data integration.
- Gained practical experience in a startup environment, with a focus on expanding knowledge in Java and AWS technologies.

## PROJECTS

### CourtFinder | *Javascript, Firebase, React.js, Node.js, Express*

June 2024 – Present

- Designed and developed a full-stack web application for users to view the availability of courts at nearby public parks in my hometown
- Integrated a queue data structure to represent the parks so that an array was made up of parks where each court was represented by a queue and availability was updated in real time on the application
- Implemented RESTful API's for communication from the client and server using Express.js
- Utilized Vercel for hosting of the frontend and Render for back end hosting
- In the process of optimizing the application to propose as a tool for the Issaquah Parks and Recreation organization

### Market Predictor | *Python, Pandas, JupyterNotebook*

Mar 2024 – Present

- Developed a Python-based machine learning model to predict future prices of stocks and cryptocurrencies, integrating big data analysis
- Used APIs from Yahoo Finance and The New York Times to gather and manipulate datasets for model training
- Implemented an algorithm to combine the analysis of financial data and also sentiment of contemporary news articles to calculate it's impact on a given stock/currency.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, R, TypeScript

**Frameworks:** React, Node.js, Flask, JUnit, Express

**Developer Tools:** Git, Amazon Web Services, VS Code, Visual Studio, Eclipse

**Libraries:** pandas, NumPy, Matplotlib