Luke Sarausad

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PROFILE

Motivated computer science student with a strong interest in software engineering, artificial intelligence, and finance. Experienced in object-oriented programming and passionate about applying machine learning to financial solutions. Aspiring to leverage my academic background and technical skills to develop innovative and financially effective business solutions in the software industry.

EDUCATION

University of Washington | B.S. in Computer Science (Data Science Option) - Minor in Business Expected June 2026

- GPA: 3.84/4.0
- Relevant Coursework: Software/Hardware Interface, Discrete Math, Software Design/Implementation, Calculus I-III, Introductory Programming
- Algorithmic Trading Club / Software Engineering Career Club
- **Java, Javascript, C, Python, Powershell, Object Oriented Programming**

Extracurricular Involvement

- **Algorithmic Trading Club:** Developed trading algorithms, honing skills in data analysis and financial modeling
- **Software Engineering Career Club:** Participated in coding challenges and workshops to improve software engineering skills and industry knowledge

Experience

Back End Software Engineer Intern August 2023 - November 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

- Designed and developed a full-stack web application for users to view the availability of courts at nearby public parks in Issaquah
- 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
- Utilized Vercel for hosting of the frontend and Render for back end hosting
- Technologies: React.js, Node.js, Firebase, Express, CORS, Javascript,
- In the process of optimizing the application to propose as a tool for the local Parks and Recreation organization

Stock/Crypto Predictor

- Created a Python-based machine learning model to predict future prices of stocks and cryptocurrencies, integrating big data analysis.
- Technologies: Pandas, Jupyter Notebook, VaderSentiment
- Used APIs from Yahoo Finance and The New York Times to gather and manipulate datasets for model training

SKILLS

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

Frameworks/Services/Libraries: Node.js, React.js, MongoDB, DynamoDB, S3, AWS Lex, AWS EC2, AWS Rekognition, AWS Comprehend, pandas