

Said Sheck

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EDUCATION

University of Washington | College Arts and Sciences

Seattle, WA

Bachelor of Arts in Mathematics

Minor: Arabic

Class of 2024

Cumulative GPA: 3.42/4.0

Relevant Coursework: STAT 391 (Statistics for Data Science) | STAT 416 (Intro to Machine Learning) | STAT 302 (Statistical Computing) | MATH 395 (Probability II) | MATH 394 (Probability I) | CSE 414 (Intro to Databases)

Skills: Java | R | Python | JavaScript | SQL | HTML | CSS | Latex | Bash

WORK EXPERIENCE

Washington Experimental Math Lab (WXML)

Seattle, WA

Student Researcher

Jan 2024 – Jun 2024

- As a researcher, my colleagues and I investigated the influence of modern mathematical tools on electoral districting.
- We employed mathematical techniques such as Markov Chains, Monte Carlo methods, and generative AI to measure and assess the partisan biases embedded in electoral district maps, with a specific focus on understanding their impact on political representation.
- Aiming to use the same tools to create a more accurate and equitable political situation.

National Oceanic & Atmospheric Administration (NOAA)

Seattle, WA

Research Intern

June 2022 - Aug 2022

- I developed tools in R to enhance the accessibility of data provided by the NW Fisheries Science Center for a broader audience.
- I leveraged the R package, R-Shiny, to transform our outdated Excel file into a user-friendly interface.

UW College of Education

Seattle, WA

Student Fiscal Assistant

April 2023 (Current)

- As a student assistant, I was responsible for assisting the department with various financial tasks.
- These tasks included processing reimbursements, reconciling myFD accounts, and processing check deposits.

Software Projects

Parenthesizations Pytorch

June 2024

- As a part of the UW MATH 480 curriculum, I was able to train a very simple machine learning model for predicting whether a given parenthesization was valid or not.
- The model I used had a single linear layer which achieved good accuracy with levels around (>90%).

Currency Exchange API

February 2022

- Developed an API that provides users with information on various currencies and their exchange rates with the US dollar. This project introduced me to best practices in developing REST APIs.
- In addition to the API, I developed a client-side application where users could simply click on the currency they wanted to exchange and, within moments, receive the corresponding exchange amount.

Weather App

August 2021

- Created an app that enables users to search the current weather of a specified area, providing accurate temperatures on demand in Celsius and Fahrenheit, along with a precise weather description.
- This app was implemented using the "Weather App" API, marking a significant introduction to asynchronous client-side JavaScript.