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.
- Aimed to develop tools that promote equitable political representation by minimizing bias in districting processes.

National Oceanic & Atmospheric Administration (NOAA) **Seattle, WA**
Research Intern June 2022 - Aug 2022
- Developed R-based tools to enhance accessibility to data from the NW Fisheries Science Center, making it more user-friendly for a wider audience.
- Leveraged the R-Shiny package to modernize legacy data tools, replacing outdated Excel files with an interactive web interface for data visualization.

UW College of Education **Seattle, WA**
Student Fiscal Assistant April 2023 (Current)
- Assist with financial tasks, including processing reimbursements, reconciling myFD accounts, and processing check deposits.
- Ensure accurate financial record-keeping and timely processing of transactions for the department.

Software Projects

Parenthesizations Pytorch **June 2024**
- Developed a simple machine learning model using PyTorch to predict whether a given parenthesization is valid or not.
- The model, consisting of a single linear layer, achieved over 90% accuracy in validation tests.

Currency Exchange API **February 2022**
- Designed and built a RESTful API providing real-time exchange rates for various currencies against the US dollar.
- Developed a client-side web application to allow users to easily select a currency and view the corresponding exchange rate, enhancing user experience and accessibility.

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.
- Implemented asynchronous JavaScript to fetch weather data from the "Weather App" API, displaying temperatures in Celsius and Fahrenheit along with weather descriptions.