

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- Leveraged the R-Shiny package to modernize legacy data tools, replacing outdated Excel files with an interactive web interface for data visualization.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

Amazon-Review-Sentiment-Analysis

July 2024

- In this project I utilized logistic regression to predict sentiment (positive or negative) from Amazon product reviews
- Model performance was analyzed by inspecting coefficients, generating confusion matrices, and comparing multiple logistic regression models to improve accuracy.

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.

Appointment-Reservation-System

April 2022

- Developed a command-line-based Appointment Reservation System for scheduling vaccination appointments, incorporating database design, patient management, and vaccine inventory control using JDBC and Microsoft Azure.
- Designed and integrated a comprehensive database schema, including the creation of tables and an E/R diagram, to support dynamic scheduling and caregiver management of available appointment slots and vaccine inventory

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.