Said Sheck

said1210@uw.edu • https://said1210uw.github.io/• linkedin.com/said1210

EDUCATION

University of Washington | College Arts and Sciences   Seattle, WA
Bachelor of Arts in Mathematics   Class of 2024
Minor in Arabic
Cumulative GPA: 3.41/4.0
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 |Git| Bash

WORK EXPERIENCE

Seattle Children's Hospital Research Tang Lab   Seattle, WA
Post-Bac Research Intern   Jan 2025 - Now
- Assist Dr. Jonathan Tang's Research on Early Childhood Psychology by applying computational and statistical methods to previous research to gain some insight into the subject
- We investigate how early life experiences influence brain development, behavior, mental health, and consciousness by combining techniques from statistics, structural biology, and computer science.

UW College of Education   Seattle, WA
Fiscal Assistant   April 2023 – Dec 2024
- Assist with financial tasks, including processing reimbursements, reconciling myFD accounts, and processing check deposits.
- Ensure accurate financial record-keeping and timely processing of 100s of transactions for the department.

Washington Experimental Math Lab (WXML)   Seattle, WA
Student Researcher   Jan 2024 – Jun 2024
- As a researcher, my colleagues and I investigated the Voting Rights Violation lawsuit filed against Washington State in the aftermath of the 2020 legislative redistricting process.
- We employed mathematical concepts such as Markov Chains and Spanning Trees to generate and establish over 20,000 alternatives maps
- We created a dataset that overlaps voting results from previous elections and demographic data using GIS mapping software for over 8000 voting precincts
- We also employed statistical techniques like ecological inference to establish if racial vote dilution was committed against the Latino community in the Yakima River Valley Area

National Oceanic & Atmospheric Administration (NOAA)   Seattle, WA
Research Intern   June 2022 - Aug 2022
- With help of mentors, we focused on creating user-friendly software applications to enhance accessibility to crucial fisheries management data.
- This project involved a Data Visualization tool that summarized essential data for each species, providing decision-makers with key information to support stock assessments and contribute to impactful West Coast groundfish fishery management planning
- Additionally, we developed a Stock Assessment Prioritization tool to address the challenge of prioritizing over 90 groundfish stocks

SOFTWARE PROJECTS

Amazon-Review-Sentiment-Analysis
- 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.

Appointment-Reservation-System
- 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
- Designed and built a RESTful API providing real-time exchange rates for over 180 currencies against the US dollar.
- Developed a client-side web application to allow users find real-time exchange values