

# Said Sheck

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## EDUCATION

### University of Washington | College Arts and Sciences

*Bachelor of Arts in Mathematics*

*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

**Seattle, WA**

December 2024

## WORK EXPERIENCE

### Seattle Children's Hospital Research Tang Lab

**Seattle, WA**

*Post-Bac Research Intern*

Jan 2025 – Mar 2025

- 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 the 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