**Said Sheck**

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# EDUCATION

## University of Washington | College Arts and Sciences Seattle, WA

*Bachelor of Arts in Mathematics* December 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 – 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