Zuizz M. Saeed

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TECHNICAL SKILLS

- Python, Java, C/C++, SAS, SQL, Perl, Kotlin, HTML/CSS, Javascript, ReactJS, Express, MongoDB, Firebase, OCaml, Bash, Git, Jira, Trello

EDUCATION

Boston University *September 2021 - May 2025*

- Master of Science and Bachelor of Arts in Computer Science, GPA: 3.7/4.0 (Dean's List)

WORK EXPERIENCE

Machine Learning Developer Intern - *SAS Institute* *May 2024 - Present*

- Trained machine learning models on 4 data sets and extracted metadata statistics to generate quality synthetic input data for any generic ASTORE (stores state of a trained machine learning model) using Pandas, NumPy, and SD Metrics libraries
  - Implementing changes in C source code to store metadata statistics within ASTORE file
- Won first place in SAS Data Story Challenge by analyzing World Development Indicators database (137 variables, 214 countries, 30 years) and creating a compelling SAS Visual Analytics dashboard about the effects of war in South Sudan
- Certified SAS Programming Specialist (reading, creating, and manipulating data for statistical analysis)

Software Engineer Intern - *Triumph Group* *June 2023 - May 2024*

- Migrated 1000+ SQA documents from Synergy (Issue Tracking Software) to Jira using Perl and Adobe Acrobat
- Generated map files for dual-channel software builds and conducted unused code analysis of ~9000 C functions
- Assisted in SOI 2 software audit preparation (assessed 50+ Software Problem Reports and 170+ Unit Development Folders containing module source code, design/code review forms, and traceability/revision difference forms)

Teaching Assistant - *Boston University* *September 2023 - Present*

- Hold weekly office hours to help students with CS (Java) coursework and assist students during weekly lab sessions

CS Learning Ambassador - *Spark!* *January 2023 - Present*

- Organized BU's Civic Tech Hackathon (100+ participants), weekly tech talks (~25 attendees), and fostered a welcoming environment in the Spark! Space for 30+ students during shifts (10 hours/week)
- Created 3 programming micro challenges for Baby Got Hack event (70+ participants)
- Guided ~20 students in instructive debugging "Bug Bash" event

Data Scientist - *The Grio* *January 2023 - May 2023*

- Created/evaluated a database of 3,285 exoneration cases in the U.S. and utilized NumPy to analyze patterns of warrant misconduct by police officials (identified 51 cases of warrant misconduct, and explored applications of NLP)
- Presented findings at Demo Day event (150+ attendees), and published article in honor of Breonna Taylor

Research Intern - *UCONN Center for Quantitative Medicine* *Summer 2020, Summer 2022*

- Given two feedback vertex sets computed by NETISCE, conducted perturbations on ~15,000 subsets of size 4 to identify targets for experimental cell fate reprogramming and successfully reprogrammed the unperturbed embryo to 6/7 tissue fates using the corresponding experimentally verified perturbations on FVS control nodes

PERSONAL PROJECTS (see Github)

Rate My Gym (Boston Hacks 2023)

- A "Yelp" for the fitness community; this React/Express-based web application utilizes Rapid API calls and MongoDB to store user-submitted gym ratings (users can login via Google OAuth) and displays ratings for niche categories such as gender distribution and average age in a gym

Outfit of the Day App (Kotlin)

- A user-friendly Android mobile app that utilizes API calls and Firebase to generate outfits from a user's virtual wardrobe based on their calendar events, weather, and style

Connect Four (Python)

- A Connect Four game that can be played with a human player or AI player. The AI player analyzes ideal future moves to improve its strategy (its intelligence can be adjusted by the user)

The Eight Puzzle (Python)

- Uses state space search to solve the Eight Puzzle and compares the efficiency of various state space search algorithms