Muhammad Saad Babar

U.S. Citizen | 248-875-4839 | saadmb@umich.edu | linkedin.com/in/muhammadsaadbabar/ | github.com/saadbabar

EDUCATION

University of Michigan - Ann Arbor — Expected Graduation: Apr. 2026
B.S. in Computer Science - GPA: 3.63 — *Ann Arbor, MI*
Relevant Coursework: Data Structures & Algorithms, Computer Organization, Foundations of Computer Science (Theory), Linear Algebra, Discrete Mathematics, Programming Languages, Probability & Statistics for Engineers

EXPERIENCE

Alumni Relations Coordinator — Jan. 2023 – May 2023
University of Michigan - Telefund — *Ann Arbor, MI*
- Conducted 150+ cold calls per shift securing donations from university alumni for various school funds
- Generated $25,000 in contributions by tailoring conversations to align with initial rapport established during calls

Data Entry Associate — Jan. 2022 – Apr. 2022
RHB Laboratories — *Troy, MI*
- Monitored changes in insurance information & updated CPT codes based on coverage plans for 200+ patients daily
- Trained 3 new hires on navigating & maintaining patient data, leading to increased efficiency of data processing

PROJECTS

Fantasy Football Trade Analyzer | *Python, React, APIs, Frontend/Backend Development* — Mar. 2024 - Present
- Integrating ESPN Fantasy API & ProFootball Reference measurement system to evaluate trade propositions
- Employing Pandas for data manipulation & analysis to assess player values based on approximate value metrics.
- Utilizing React.js and Tailwind CSS to craft a responsive & intuitive user interface, enhancing user interaction

Personal Portfolio | *Javascript, CSS, React.js, Web Development* — Feb. 2024
- Engineered portfolio website leveraging React's JavaScript library and CSS modules to ensure reusability
- Implemented responsive design techniques to ensure optimal viewing experiences across diverse screen sizes

Wire Transfer Model | *C++, Hash Tables, Priority Queues, Binary Search* — Oct. 2023 - Nov. 2023
- Employed hash tables to efficiently store & access user information, such as user IDs, PINs, & balances, enabling constant-time lookup & ensuring rapid retrieval of account details during login & transaction processing
- Leveraged priority queues to manage & process transactions based on execution dates maintaining an order
- Utilized binary search to locate starting & ending positions of transactions within given time range

ML Forum Post Classifier | *C++, Natural Language Processing, Collaboration* — Mar. 2023 – Apr. 2023
- Identified subject of posts from Piazza by applying natural language processing & machine learning techniques
- Categorized posts into relevant threads or subject-matter using binary search trees & recursion
- Liaised with partner to develop Bayesian model to process textual data, enhancing platform's functionality

EXTRACURRICULARS & CERTIFICATIONS

2023 Summer Insight Series | *Goldman Sachs* — May 2023 – June 2023
- Selected from 10,000 applicants to partake in Goldman's networking events & gain familiarity with banking sectors

The Complete Python Boot Camp Course | *Udemy* — May 2023 – June 2023
- Completed a 6-week Python course learning elemental topics such as dictionaries & object-oriented programming

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Javascript, R, HTML/CSS, Excel
Technologies/Other: Git, React.js, Jupyter Notebook, VS Code, PyCharm, Ubuntu, PC Troubleshooting

AWARDS & INTERESTS

Awards: National Merit Commended Scholar, Scholar of Highest Distinction, National AP Scholar
Interests: Cricket, Table Tennis, Machine Learning, Web Development, Computer Hardware, Financial Markets
Languages: English (Fluent), Urdu (Fluent), Hindi (Fluent)