Syed Farhan Ahmed

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EDUCATION

University of Calgary — Calgary, AB
Bachelor of Science in Computer Science with Science Internship Designation — *Sep. 2018 - May 2024*
- **Activities**: Science Mentorship Program, Computer Science Undergraduate Society, Photography & Car Club
- **Relevant Coursework**: Design and Analysis of Algorithms, Software Engineering Web-based Systems, Data Structures and Algorithms, Database Management, Computer Networking

EXPERIENCE

Software Developer Intern — Sep. 2021 – April 2022
Gordian — *Remote, Calgary*
- Developed Python application processing 30 million USD worth of data annually.
- Reduced codebase by 46% via strategic refactoring, enhancing scalability, maintainability, and user experience.
- Designed and developed data analytics features using the Pandas library and Microsoft Excel for ongoing projects.
- Conducted functional and regression testing, and created documentation for 3 version releases of the application.
- Developed and demonstrated a Python data automation tool during a bi-weekly program manager meeting through an engaging presentation.
- Regularly communicated updates on new features during stakeholder meetings.

PROJECTS

City Escapes and Weather | *React, Tailwind CSS, Geocoding, Firebase*
- Developed a web application that allows users to search for weather information in any city and retrieve a list of central restaurants.
- Implemented a dynamic background imagery feature that seamlessly adapts to various cities, enhancing the visual experience for users.
- Crafted an application with search functionality, reload icons, navigation, and imagery to deliver a rich user experience and enhance overall UX. **Link**

Mad Minute Compounds | *Glitch, JavaScript, HTML, CSS*
- Collaborated with a 4-member team to design and develop an interactive application for children.
- Implemented a function that enables users to create elements with visual image feedback and keeps track of their count.
- Led the team in the design and development process, receiving 100% positive feedback for the user-friendly and novel features of the application. **Link**

Reviews Scored | *Spring boot, Java, Rapid API, MongoDB*
- Developed a REST API that performs sentiment analysis on user comments using the Python Text-Processing API.
- Implemented Python automation to retrieve accurate JSON data pipelines for the required list of YouTube channels to be reviewed. **Link**

Bulk Buddies | *Python, Flask, React, Tailwind CSS, db SQLite, Figma*
- Developed a full-stack application to address bulk food waste problems in collaboration with a 4-member team.
- Contributed to the design and development of a catalog feature that seamlessly allows users to pick and choose food items in an interactive environment. **Link**

Command Line Ticktacktoe Game | *C*
- Developed a player vs. computer Tic-Tac-Toe game in the command line interface.
- Implemented the minimax algorithm for the computer AI. Optimized tree search using the alpha-beta pruning method for the computer's game choices. **Link**

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, Go, JavaScript, SQL
Frameworks: Django, Flask, React, Node, Spring Boot Junit, Tailwind CSS, JQuery, WordPress
Developer Tools: Jupyter Notebook, Microsoft SQL Server, Figma, Azure Data Studio, Visual Studio, Git, Github
Libraries: pandas, NumPy, D3.js