AYMAN FAISAL

aymansays.github.io
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Education

Simon Fraser University | Vancouver, BC — May 2022
B.S Computer Science

Technical Skills

Languages: Python, C#, Ruby, SQL, C, C++, Java, HTML, CSS, Matlab

Tools: AWS (Lambda, DynamoDB, S3), Git, Pandas, NumPy, Datadog, Unity, ASP.NET, Jira, Confluence, Docker, Vim, VS Code

Work Experience

Software Developer (Co-op) | Moz — May – Dec 2020

- Worked on an analytical web app using MySQL, Ruby on Rails, and AWS to extract search engine results for site and keyword analysis
- Developed an experimental SEO calculator in Python using AWS Lambda and S3 by streaming large JSON files for testing scalability and speed among various programming languages
- Stored millions of results from a machine learning model in AWS DynamoDB for scalable data analysis
- Monitored Datadog dashboards for managing server-side processes to catch failed jobs
- Resolved client issues through Jira for handling cases such as data migrations and feature requests

Software Developer (Co-op) | Virtro — Jan – Aug 2019

- Developed a web app using ASP.NET and C# to display employee time sheets by querying a MySQL database which resulted in 5 times more efficient payroll processing
- Implemented a database using Microsoft SQL Server for storing game character (NPC) dialogues
- Participated in Agile environment using Scrum methodologies through daily stand-ups and weekly sprints
- Compelled proper Git practices by enforcing a feature branch workflow and standardising commit messages to help track changes
- Automated CSV file generation in Python using Google Sheets API to parse spreadsheet data resulting in completing a 1-week manual data entry task to 5 minutes or less

Technical Projects

COVID-19 & Stock Market Analysis — Mar – Apr 2020

- Analysed the correlation between total COVID-19 cases and major stock market indexes over time for select 15 countries using Python
- Created a website using React.js to present interactive data allowing the user to select which countries to view and including an optional logarithmic scale
- Collaborated with teammates using Git and Discord to extract, transform, and load all data for the web frontend

Machine Learning Sorting Hat — Sep – Dec 2019

- Utilised Python's data science tools to extract and analyse over a million personality quiz responses into an associated Harry Potter house
- Cleaned and analysed over 1 million rows of data using Pandas and NumPy to prevent inaccuracy in statistical tests
- Programmed the creation of histograms, a boxplot, and a pie chart using Matplotlib to visualise the behaviour of the dataset