

Syed Jafer Haider

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Skills

Technical: Python, C++, C, C#, SQL, node.js, React, Git, pandas, Django, Spark, Jupyter

Experience

Software Engineer Intern - Infrastructure

San Francisco, California

Yelp

January 2020 - April 2020

- Extended Jupyter in Python and JavaScript with AWS IAM credentials management to reduce new user onboarding times by over 3 hours
- Rewrote and maintained open source Jupyter extension for monitoring Apache Spark jobs to assist in monitoring and cutting internal Spark costs (git.io/JfG8k) 📄
- Developed Papermill IO handler for Yelp's notebook database to enable scheduled execution of template notebooks

Research Assistant

Waterloo, Ontario

University of Waterloo - Cheriton School of Computer Science

September 2019 - December 2019

- Implemented fence operations in C++ for x86 hardware to allow for prevention of sequential code optimizations

Data Science Intern

San Francisco, California

Vida Health

May 2019 - August 2019

- Increased consumer engagement by designing and building recipe recommendations in Python using a hybrid implementation of content-based and collaborative filtering models
- Leveraged BigQuery and Split to translate data from A/B experiments into digestible presentations for the product team
- Improved performance of primary prediction pipeline by 50% through parallelization and code deduplication

Software Developer Intern

Toronto, Ontario

BMO Capital Markets

January 2018 - April 2018

- Built C# WPF apps for tradefloor employees to replace Excel with streamlined, resource-efficient workflows
- Connected an ASP.NET front end to an Oracle SQL database to develop web apps to aid employees with common financial calculations when bidding in treasury auctions
- Developed a pub/sub infrastructure in C# and SQL Server to enable async bulk trading to reduce load on infrastructure

DevOps Engineer Intern

Guelph, Ontario

Camis Inc.

May 2017 - August 2017

- Created a web dashboard using React and node.js to enable field team to independently monitor remote clients health
 - Initiated and launched a company-wide source control branching strategy involving migration from TFS to Git
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Projects

SparkMonitor (git.io/JfG8k) 📄 — Jupyter extension with per-cell monitors for Spark jobs, tasks, and stages

- Reports real time progress as Spark jobs execute in a Jupyter Notebook cell

BetterMultitasking (git.io/Jv0j4) 📄 — iOS tweak with over 1000 downloads for iPads that enhances native multitasking

- Enables running iPhone apps natively on iPads and allows for all apps to be used with SlideOver and SplitView

Meal Recommendations (git.io/JesuK) 📄 — Content-based model that creates user profiles to recommend food

- Constructs ingredient matrix of each meal to determine user ingredient preferences using user ratings

web-msngr (git.io/Jesui) 📄 — Real-time personal messaging web application created using the MEAN tech stack

- Uses sockets, NoSQL to store and communicate between users through an Angular front end
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Education

Candidate for Honours Bachelor of **Computer Science**, BCS

Candidate for Honours Bachelor of **Business Administration**, BBA

University of Waterloo, 2016 - 2021

Wilfrid Laurier University, 2016 - 2021