SIDDHARTH BHATTACHARJEE

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SKILLS

Languages and frameworks: React (Redux, Konva), Angular 8/JS, Ruby (Jekyll), C#, Node (TensorFlow.js, Express), Python (OpenCV, NumPy, Diango, Flask), Golang, Java (J2EE, Spring), C++, SQL, NoSQL, Unix, Powershell Tools: AWS, Kubernetes, ASP.NET Framework, LINQ, RESTful Services, gRPC, Protobuf, RDBMS.

WORK EXPERIENCE

DBRS Morningstar | Software Engineer Intern | Toronto, ON

May 2019 - August 2019

- · Developed components in Angular 8 and corresponding RESTful API endpoints as part of new workflow to streamline ratings process for analysts.
- Designed bulk import tool allowing analysts to instantiate 1000+ ratings through Excel spreadsheets.
- · Created view models used for PDF generation to automate data retrieval, reducing workflow for analysts by 45%.
- · Spearheaded cleanup tasks to detect approximately 1500 instances of bad data in production database using data analytics techniques using Python and SQL.

Waterloop | Desktop Systems Developer | Waterloo, ON

Jan 2019 - April 2019

- Designed **Golang** server and **Protobuf** interfaces for data streaming between desktop server and pod over **WebSockets**.
- Created Javascript + MongoDB client to test and log incoming pod information.

HORIBA Test Automation | Software Developer | Burlington, ON

Sep 2018 - Dec 2018

- Designed data models for approximately 40 device drivers, reducing processing time of resources by 90%.
- · Refactored XML resources using C# scripts and 2-way data binding to create modular and cleaner schemas, reducing file size of device drivers by 30%-40%.

Bronte College | Software Developer | Mississauga, ON

Jan 2018 - April 2018

- · Optimized UX and reliability by adding features, fixing bugs, and refactoring code for internal **J2EE CRM portal**.
- · Implemented payment and registration features for AP exams for student portal designed in **AngularJS**.
- · Configured CRM back-end in **JSP** and student portal back-end in **PHP**. Utilized **MySQL** as primary database.

PROJECTS

Twitch Data CLI | Python, Pandas, Matplotlib

- Real-time CLI data tool to analyze incoming chat messages on popular live streaming platform, Twitch.
- Developed script to monitor over 40,000+ streamed messages per hour sent over IRC protocol using WebSockets and display relevant information like user engagement and viewer count.
- · Leveraged regular expressions and Pandas to parse raw data into dataframes for further analysis and data visualization with Matplotlib.

Palmpong-v2 | React-Konva, TensorFlow.js

- · Built clone of arcade game 'pong' using React-Konva wherein the user controls the paddle with their palms.
- · Image recognition leveraged on TensorFlow.js's BodyPix model

Daily Wallpaper | Python, PowerShell

- · Windows tool which updates the lockscreen on a daily basis from a curated list of artworks from the Metropolitan Museum of Art Collection API.
- Leveraged multi-threading to obtain valid entries from API. Formatted image using PIL library.

EDUCATION