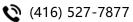
Victor Sun

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wictorjzsun.github.io



EXPERIENCE

Data Engineer

Capital One, May - August 2020

- Built and optimized customer behaviour model using PyTorch, saving an estimated \$1m in fraud dollars per year
- Added side features to Matrix Factorization recommendation model; Added Linear Regression meta-model to solve cold starts
- Interacted with millions of rows of data stored in Snowflake database using Dask and pandas dataframes
- Implemented Hogwild and distributed GPU processing methods for training/optimizing speedups
- Deployed model to AWS EC2 instances using in-house cloud compute server

Solutions Developer

FairVentures Inc, May - August 2019

- Streamlined data collection by implementing single page application with Vue.js, saving >50% of work/time required to write multinational policies
- Developed GraphQL API, written with TypeScript and Node.js;
 stored and queried data in PostgreSQL database
- Automated testing and deployment to Kubernetes cluster by containerizing apps with Docker and using GitLab's Auto DevOps CI/CD

PROJECTS

Google Sheets Add-on for YouTube Playlists

github.com/Elijas/auto-youtube-subscription-playlist-2

- Collaborated on open-source project on GitHub; Resolved 20+ issues and contributed to/reviewed 20+ pull requests
- Maintained Google Apps Script (JavaScript-like language) that automatically adds videos to YouTube playlist
- Automated testing and deployment to Google using Travis CI

RAIlnet -Stratego Game Spinoff

- Constructed Stratego spinoff game using C++ in a team of three
- Implemented MVC and Observer design patterns
- Provided X11 GUI in addition to command line interface

SKILLS

- TypeScript/JavaScript, Python,
 C/C++, Java, SQL, Git, Bash, UNIX
- Node.js, REST/GraphQL, gRPC, MongoDB/PostgreSQL/Snowflake
- Docker, Google Cloud Platform, Visual Studio, GitHub/GitLab, JIRA
- National Lifeguard Certification

EDUCATION

Candidate for Bachelor's of Computer Science

University of Waterloo, Expected Apr. 2023 Cumulative Average: 90%, GPA: 3.9/4.0

EXTRACURRICULARS

Data Science Club Member

University of Waterloo, Fall 2018 - Current

 Analyzed different modeling approaches using Jupyter notebooks

Local Hack Day Executive Organizer

Iroquois Ridge High School with Major League Hacking, Fall 2017, Fall 2018

- Managed a team of volunteers to host a successful hackathon for 100+ students
- Procured sponsorships, organized events, and ran several workshops
- Returned following year to lead workshops on GitHub and Python

HOBBIES

