Victor Sun

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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**

RAIInet – 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