SHAHZAIB PARACHA

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EDUCATION

University of Manitoba
Bachelors of Computer Science
Honors (Co-op Option)
Expected Graduation: May 2023

COURSEWORK

Undergraduate
Software Engineering A
Programming Practices A+
Data Structures A
Machine Learning A+
Object Orientation A+
Distributed Computing A

SKILLS

Languages
Python, TypeScript/JavaScript, C/C+
Java, PHP, HTML/CSS, SQL, LaTeX, Swift

Design concepts
MVVM, MVC with OO Design, TDD,
Distributed Systems, Microservice
Architecture

Tools
AWS, Docker, Kubernetes/Kubeflow,
Bash/Zsh, Heroku, git, Vi/Vim

Libraries and Frameworks
OpenCV2, React with Express,
Tensorflow, Hugging Face, Laravel with
Vue

CO-CURRICULAR ACTIVITIES

.devClub
Treasurer 2021-Present
Member 2018-2021

Women in CS
Member 2018-Present

CS Student Association
Member 2018-Present

COMPETITIONS

ICPC North America Qualifiers
2019
ICPC North America Regionals
2019, 2020

10.18.2021

EXPERIENCE

Upfeat Media   May 2021 - Present
Software Developer Co-op, then Part Time   Winnipeg, Manitoba

- Improved user experience by adding pages and features to sub-domains of White Label sites with 1M-100M+ monthly users using Laravel and MySql.
- Optimised front-end performance of a high-traffic partner site by over 30% by adding caching, eager-loading and resolving web vital errors using SCSS, Bootstrap and CDN Caching.
- Added and configured cross-application features to augment data collection for 20+ White Label partners in Kibana using Elasticsearch, Laravel and VueJS.

Laivly   Sep 2020 - Jan 2021
Junior Machine Learning Engineer - Co-op   Winnipeg, Manitoba

- Delivered a NLP service by training and testing Transformer-based models for a Fortune 500 enterprise client to improve their email handling time by automating email responses.
- Implemented a Data Processing library in Python as part of the internal MLaaS Platform, allowing full automation of routine text processing tasks.
- Developed an interface for a Named Entity Recognition model using TDD to generate human-readable outputs after concealing sensitive information, and optimized hyper-parameters to improve the model accuracy by 8%.
- Designed and started developing a scalable microservice-based pipeline to carry out routine machine learning tasks to integrate with the internal MLaaS Platform and minimize developer interaction down to a single command.

PROJECTS

MageBank ⭘ | Image Store
A web application that enables users to have a personal online Image Storage with caching, backed on the cloud with secure uploads and deletes. (React, Express, Redis, AWS S3, SQLite3)

Go Ether Me ⭘ | Decentralized Web App
A web application based on the Ethereum blockchain network allowing users to host projects for crowdfunding and fund existing projects, with each project and transaction recorded on the Blockchain. (React, Express, SQLite3, Web3, Truffle)

SmartKitchen ⭘ | Android App
A list management system for kitchen inventory, grocery list, and recipes to allow users to manage inventory and meal prep with current inventory, designed and implemented with a group of 5 following Agile techniques and TDD. (Android Studio with Java, Maven)

OPEN SOURCE

Microsoft's Python extension of VSCode
Nov 2020 - Present
Contributed Pull Requests by fixing bugs and addressing issues.