

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, Onnx,
Tensorflow, Hugging Face, Laravel with
Vue, FAISS

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 Regionals

2019, 2020

ICPC North America Qualifiers

2019

EXPERIENCE

Upfeat Media

Software Developer (Full Stack) - Co-op

May 2021 - Aug 2021

Winnipeg, Manitoba

Laivly

Junior Machine Learning Engineer - Co-op

Sep 2020 - Jan 2021

Winnipeg, Manitoba

- Carried out end-to-end release for a Natural Language Processing service tackling email classification in Python by training and deploying multiple Transformer-based models onto Laivly's SIDD Platform.
- Headlined a Data Processing library in Python that became a part of the internal MLaaS Platform, allowing full automation of routine text processing tasks.
- Developed and deployed an interface for a Named Entity Recognition model following TDD principles to generate human-readable outputs that completely conceal sensitive personally identifiable information, and improved the top-3 model accuracy by 8% by hyper-parameter optimization.
- Designed and developed a scalable microservice-based continuous learning architecture to carry out routine machine learning tasks that integrates with the internal MLaaS Platform to minimize developer interaction down to one.

PROJECTS

Go Ether Me 📱 | Decentralized Web App

A web application based on the Ethereum blockchain network that allows users to host projects for crowdfunding and users to fund, with each project and transaction recorded on the Blockchain. (React with Express, SQLite3, Web3, Truffle)

SmartKitchen 📱 | Android App

A list management system for kitchen inventory, grocery list, and recipes. It allows you to easily input and view all of the food you currently own, as well as add food to your grocery list or use it when making a recipe. (Android Studio with Java, Maven)

FREEDOM 📱 | iOS App + Web App

A web application that allows users to share book excerpts, song lyrics and quotes anonymously and receive them daily as a feed over email. (React with Bootstrap, MongoDB with Mongoose, AWS SES, Express.js, Node.js, Heroku)

OPEN SOURCE

Microsoft's Python extension of VSCode

Nov 2020 - Present

Contributed Pull Requests by fixing bugs and addressing Open Source issues in repository.