FEI ZHENG

Software Developer

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HIGHLIGHT

- Motivated **Software Engineer** with strong analytical, programming and problem-solving experience
- In-depth understanding of **Data Structure, Algorithms** and **OOP** principles
- In-depth understanding of **Web, Mobile, Database** and other software design best practices
- Love using **Git** version control, especially when working with other geeks
- Excellent **communication** skills and great team player
- **Quick learner** and ability to work under pressure with time management skills
- **Good motivator**, enthusiastic and passionate about new tools and technology

EXPERIENCE

Software Developer

IBM

May 2021 - Present Toronto, Canada

- Developed new features with IBM Carbon Design System for **IBM Sterling Business Transaction Intelligence** Tool.
- Produced the front-end for web application with various technologies, but not limited to: **HTML, CSS, Angular, TypeScript, Git, NodeJS**.
- Improved existing features for UX enhancement.
- Lead and Collaborated with team members for large defect fixes.

Front-end Developer Intern

IBM

Sep 2019 – April 2021 Toronto, Canada

- Worked in an Agile, collaborative environment to understand requirements, design, code, and test applications.
- Implemented new features for **Carbon Charts** and **Carbon Design System**, provide unit tests and solve issues with **D3.js** and **Vanilla JavaScript**.
- Employed Design Thinking to create features that provide a great user experience.

Computer Vision Research Assistant

York University CVR

May 2018 – April 2019 Toronto, Canada

- Participated in Intelligent Systems for Sustainable Urban Mobility (ISSUM) project
- Evaluated and compared state of art algorithms for specified datasets via Python and MATLAB
- Analyzed and tested Auto Camera Calibration with Manhattan Frame Estimation and Unsupervised Crowd Counting

EDUCATION / COURSES

B.Sc. Honours, Computer Science

York University

Jan 2016 – Apr 2021

Machine Learning Certificate

Stanford University (via Coursera)

June 2017 – August 2017

Advanced Diploma, Graphic Design

Seneca College

Jan 2014 – Jan 2016

SKILLS

Python, TypeScript, ReactJS, Angular
HTML, CSS, NodeJS, Git, Docker
Java, ExpressJS, D3.js, PostgreSQL

PROJECTS

RSME web application

- Built a web application that auto generates resume in PDF
- It gets user profile information with given binding permission from LinkedIn via LinkedIn, RESTful API and OAuth2 and gets code contribution chart from GitHub with given username
- The project is written in Node.js and Express.js with various of Node.js libraries, including request, PDFKit, xpath, xmldom, mustache-express, etc.

Lane Detection

- Designed an algorithm to recognize lane marks from image and video without camera calibration
- It includes image color analysis, filtering, perspective transform and sliding windows
- The dataset is chosen randomly without camera specification
- The project uses Python libraries include Matplotlib, OpenCV and NumPy