

ZIFENG (ALLEN) AN

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EDUCATION

McMaster University

September 2017 - May 2023

Mechatronics Engineering (Software Department), Biomedical Engineering

GPA: 3.9

Bachelor of Engineering, Currently in Final Year out of Five Years

WORK EXPERIENCE

Software Engineering Intern, IBM

May 2022 - Aug 2022

- Fixed frontend defects with **Typescript** and **React** in a **Dockerized** environment to ensure consistent user experience in different themes and platforms for IBM Cognos Analytics.
- Developed frontend interactive features using IBM React Carbon components featuring adaptive rendering and accessibility to improve user experience.
- Created unit tests using Enzyme and Jest to increase unit test coverage from 60% to 96%.
- Utilized Jenkins CI/CD for deploying the latest build and investigating pipeline build failures.

Application Developer Coop, CIBC

May 2021 - May 2022

- Provided large-scale big data Splunk log analysis solution to Incident Management, Alert System, Fraud Detection, Performance Analysis and Certificate Management.
- Developed and optimized complex Splunk queries to produce statistical analysis and data visualizations (dashboards, reports and alerts) to meet the needs from other enterprise teams.
- Implemented proof-of-concept prototypes using **Splunk Machine Learning** Toolkit for customer segmentations and page recommendations to deliver customized targeted promotions.

Computer Science and Math Teaching Assistant, McMaster University

September 2018 - now

- Courses: Database, Software Design, OOP, Discrete Math, Linear Algebra, Calculus
- Developed unit testing scripts and selenium script to evaluate 200+ student's programming assignments and automatically submit the marks to the online school system.
- Conducted exam reviews in front of 200+ students and provided tailored personal tutoring
- Received acknowledgements from students for the outstanding communication skills and detailed clarification on perplexing and abstract concepts.

PROJECTS

Self Developed Personal Website

2020

- Developed a mobile friendly, client-side-routing SPA using React-Redux with a self designed UI to share a Personal Tech Blog. Implemented vanilla Javascript games and animations in projects.
- Used Github Action for automatic deployment, SEO for search engine indexing and Google Analytics to monitor user behaviours

SKILLS

- JS/TS | Python | Java | C/C++ | R | Haskell | CSS/SCSS | MATLAB | Simulink
- Node | Express | React-Redux | Django | PyTorch | OpenCV | Sqlite | Cordova | Selenium | Jira
- Ubuntu | GCP/AWS | CI/CD | Nginx | Wireguard | Lambda | Git | Docker | Postman
- English, Mandarin, Shanghainese - All professional proficiency or above