

# ZIFENG (ALLEN) AN

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## EDUCATION

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### 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

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### Software Engineering Intern, IBM

May 2022 - Aug 2022

- Being part of the Cognos Analytics Team, fixed frontend defects in **Typescript** and **React** in a **Dockerized** environment.
- Developed frontend features using React Carbon components.
- Created unit tests using Enzyme and Jest to ensure full test coverage.
- Utilized Jenkins CI/CD to automate the process of deploying the latest build and investigating pipeline failures.

### Application Developer Coop, CIBC

May 2021 - May 2022

- Being part of the service effectiveness team providing full scale Splunk log analysis solution.
- Developed complex Splunk queries to produce statistical results required from other enterprise teams (Fraud, Performance Team).
- Developed proof-of-concept models using **Splunk Machine Learning** Toolkit for customer segmentation and page recommendation.
- Optimized queries to produce dashboards, reports and alerts for incidence monitoring and data visualization.

### Computer Science and Math Teaching Assistant, McMaster University

September 2018 - now

- Courses: Database, Software Development Design, OOP, Linear Algebra, Calculus
- Developed unit testing scripts and selenium script to evaluate student's programming assignments and automatically submit the marks to the online school system.
- Conducted exam and midterm 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

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### Personal Website

2020

<https://zifengallen.me/>

Website UI Design. Flex Layout. Mobile First Principle. Bootstrap. Vanilla Javascript Games. Canvas Animations. React Client-side-routing. Personal Tech Blog. Github Action. SEO. Google Analytics. Django Forum. Full Stack Web Application.

## SKILLS

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