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, <u>IBM</u>　　　　　　　　　　　　　　　　　　*May 2022 - Aug 2022*

- Conducted frontend development with **Typescript** and **React** for IBM Cognos Analytics - a data analytics platform.
- Developed frontend interactive features in a Dockerized environment using IBM React Carbon components. Ensured adaptive rendering and accessibility across different themes and platforms 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, <u>CIBC</u>　　　　　　　　　　　　　　　　　*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, Principles of Programming, Discrete Math, Linear Alegbra, 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 private tutoring
- Received acknowledgements from students for the outstanding communication skills and detailed clarification on perplexing and abstract concepts.

PROJECTS

Hearing Test Mobile App　　　　　　　　　　　　　　　　　　　　　　　　　　*2022*

- Developed a cross-platform mobile app with Flutter. Served as a pre-screening tool to provide users with 3 hearing tests - pure tone audiometry test, digits in noise test and a custom-designed spatial sound test.
- Implemented a full stack application with Express backend. Designed intuitive data visualization for users' hearing test results and provided assessment reports based on the standard benchmark audio lab results.

Self Developed Personal Website　　　　　　　　　　　　　　　　　　　　　　　*2022*

- 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 canvas animations in projects.
- Used GitHub Action for automatic build and deployment, SEO for search engine indexing and Google Analytics to monitor user behaviours. Provided login and commenting services from home hosted server.

SKILLS

- JS/TS | Python | Java | C/C++ | Node | Express | Django | PyTorch | Flutter

- English, Mandarin, Shanghainese - All professional proficiency or above