ZAIN AFZAL

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EDUCATION

University of Waterloo | Bachelor of Applied Science in Software Engineering   Expected April 2025

SKILLS

Languages: JavaScript, C++, Python, Java, C, C#, TypeScript, HTML, CSS
Technologies: React, Angular, Redux, Django, Node.js, Express.js, Spring Boot, MySQL, Google Cloud Platform, AWS S3, Docker

EXPERIENCE

Nokia | Frontend Developer   Ottawa, ON | Sep-Dec 2022
- Working on building advanced web components with **React** for Nokia's Network Services Platform

Citylitics | Software Developer   Toronto, ON | Jan-Apr 2022
- Worked in an agile team to develop and enhance software solutions to deliver predictive intelligence on local utility and public infrastructure markets, analyzing related data across North America
- Utilized **React**, **Redux**, **JavaScript, CSS** and more to create various features and components on application used by intelligence and product teams to find targets more efficiently for customers and improve their workflow
- Implemented internal tools and refined REST API design using **Django**, **Django Rest Framework**, **Python,** and **MySQL** while also writing unit and integration tests using **Pytest** thereby increasing test coverage by **25%**
- Wrote various scripts and incorporated features for web crawler pipeline using **Python**, **Scrapy**, **Google Cloud Platform**, and **RabbitMQ** increasing number of files retrieved per crawl by **300,000+** and decreasing cloud storage costs by **30%**

Schedulock | Software Developer   Toronto, ON | May-Nov 2021
- Collaborated in a team of developers to re-platform Schedulock's real estate management software
- Designed and refactored core components/features such as sales reports, employee monitoring dashboards, and listing pages with **React**, **JavaScript**, **CSS**, **Bootstrap**, and **ChartJS** cutting down render times by **40%**
- Constructed dynamic reports using complex queries to extract data and map various trends and statistics from **MySQL** database allowing advanced filtering capabilities
- Optimized backend REST API for high user traffic areas of the app with **Java**, **Spring Boot**, and **AWS S3** leading to reduced calls and improving overall efficiency and performance by **53%** on average

Net Zero Energy Inc | Frontend Developer   Toronto, ON | Jun-Aug 2019
- Developed landing page for start-up company, utilizing **HTML**, **JavaScript**, **CSS**, and **React** framework for frontend to generate modern and clean UI
- Designed interfaces for various pages leading to a more user friendly and interactive experience
- Enhanced site structure, navigation, and improved page optimization for faster render times

PROJECTS

Micro Computers
React, Redux, JavaScript, Django, Django Rest Framework, Python, MySQL, Bootstrap, HTML, CSS
- Built e-commerce application for computer electronics allowing users to create/login an account, add items to cart, view cart from previous session, checking out, searching for items, etc.
- Constructed database with complex relations and created an efficient backend API
- Implemented admin privileges to view and manipulate products as well as manage users

EzPass
React, Redux, JavaScript, Node.js, Express.js, MySQL, REST API, Axios, Bootstrap, HTML, CSS
- Created a full stack password manager application allowing users to store important information such as passwords, credit cards, notes, and addresses by using encryption
- Implemented necessary CRUD operations for the user to perform and designed backend REST API using Node and Express