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, Redux, Django, Node.js, Express.js, Spring Boot, MySQL, Google Cloud Platform, AWS, Docker

EXPERIENCE

Nokia | Frontend Developer   Sept-Dec 2022
- Currently on Network Automation team

Citylitics | Software Developer   Jan-April 2022
- Worked in an agile team to develop and improve software solutions to deliver predictive intelligence on local utility and public infrastructure markets to analyze related data across North America
- Utilized **React**, **Redux**, **Javascript,** 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 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 implemented features for web crawler pipeline using **Python**, **Scrapy**, **Google Cloud Platform**, **RabbitMQ**, and **Elasticsearch** resulting in an increase in document retrieval and decreasing monthly cloud storage costs by **30%**

Schedulock | Software Developer   May-Nov 2021
- Collaborated in a team of developers to re-platform Schedulock's real estate management software and integrate new features using **React**, **Javascript, Bootstrap** on the frontend, and **Java**, **Springboot** on the backend
- Designed new reports and improved existing ones using **ChartJS** to display data in an accurate and intuitive manner, and **Google Maps API** to show a visual representation of listings on sale
- Constructed dynamic reports using complex **SQL** queries to extract data and map various trends and statistics from **MySQL** database allowing user to filter data to their needs
- Configured and managed **AWS S3 Buckets** to store images and important listing documents

Net Zero Energy Inc | Frontend Developer   June-Aug 2019
- Developed landing page for start-up company, utilized **HTML**, **JavaScript**, **CSS**, and **React** framework for frontend to generate modern and clean UI
- Designed UI and UX for the Homepage, About us, Services, and Projects/Featured Projects pages
- Enhanced user experience and accomplish webpage objectives by creating site structure, navigation, and page optimization

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. within a modern UI
- 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, JavaScript, Node.js, Express.js, MySQL, REST API, Redux, 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