

# ZAIN AFZAL

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## EDUCATION

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University of Waterloo | Bachelor of Applied Science in Software Engineering

Expected April 2025

## SKILLS

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**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, Docker

## EXPERIENCE

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**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

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### 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, 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