

ZAIN AFZAL

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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, Bootstrap

EXPERIENCE

Full stack Developer | Citylitics Inc.

Jan-April 2022

- Worked in an agile team to develop and improve software solution to deliver predictive intelligence on local utility & public infrastructure markets, analyzing related data across North America
- Utilized **React**, **Redux**, **Javascript**, and more to create various features and components on platform 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** increasing test coverage for specific modules by **20%**
- 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%**

Software Developer | Schedulock Inc.

May-November 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
- Additional frontend libraries included **ChartJS** to create reports that display data in an accurate and intuitive manner, and **Google Maps API** to show a visual representation of listings on sale
- Constructed complex **SQL** queries for dynamic reports to extract data and map various trends and statistics from **MySQL** database where the user can filter through specifically what data they want to receive
- Implemented feature to upload important listing files/images to **AWS S3 Bucket** and retrieve through the backend

Front-End Developer | Net Zero Energy Inc.

June-August 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
- Implemented new responsive and mobile friendly approach

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 which includes user registration, login, and authentication
- User can store all their passwords securely as the passwords get encrypted when stored in database
- Implemented all necessary CRUD operations for the user to perform. Designed backend REST API using Node and Express with custom endpoints

EDUCATION

University of Waterloo | Bachelor of Applied Science in Software Engineering

Expected September 2025

- **Relevant Courses:** Programming Principles, Intro to Data Abstraction and Implementation, Logic and Computation, Foundations of Sequential Programming, Data Structures and Data Management, and Intro to Database Management
- **Awards:** President's Scholarship of Distinction