

# ABDALLA SARHAN

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## Education

York University | Toronto, ON | Expected in 04/2024 | **BEng Specialized Honours Computer Engineering**

**Relevant Coursework:** Java and advanced OOP, Fundamentals of Data Structures, Embedded Systems, Computer Organization, Software Design, Communication Networks.

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## Skills

- **Programming Languages:** Java, C, python, JavaScript, TypeScript, HTML and CSS.
- **Web/Mobile Development:** React.JS, Node.JS, React Native, Express.js, Spring Boot, Docker, AWS, Firebase.
- **Databases:** SQL and NoSQL.
- **IDE's:** VScode, IntelliJ, Eclipse.
- **Collaboration and Version Control:** Gitlab, Github.
- **Backstage by Spotify** for building developer ecosystems

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## Projects

**CampUnity - Full Stack Mobile Application** | University buy and sell marketplace | [Repository](#)

- Developed Frontend using **React Native CLI** and **Firebase** for the backend (Firestore, Storage, Authentication).
- Used Firestore to read and write users data, posts, and services. Firebase storage for storing images.
- Created **Custom React Hooks** for different categories of data such as products, services, users.
- Services section for users to promote ideas around campus with fellow students (Ex: Delivery Service).

**WhereTo – Full Stack Web Application** | Travel sharing website | [Repository](#)

- Developed Frontend components using **React.JS** and Backend server using **Express** with **Node.JS**.
- Used **React Context API** to pass trips and render in different components. **Axios** for making requests to the server.
- Accomplished login and registration using **JWT** and **PostgreSQL** to store the data as well as **hashing password**.
- Created custom **API's** with **Node.JS** to achieve **post and retrieve** trip functionality in my **PostgreSQL** database.

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## Work Experience

**Software Engineer Intern | Bitspire Inc** | Toronto, ON | 05/2022 – 09/2022

- Developed frontend components on web application projects using **TypeScript**, **React**, **Gatsby**, and **Recoil**. Made **GraphQL** queries to retrieve data for display.
- Migrated an email notification Apache Pulsar microservice from Node.JS to Scala and ZIO by creating the producer and consumer following the publish-subscribe messaging pattern.
- Developed full stack **Backstage plugins** with **React**, **Node.JS** and **TypeScript** in a **Monorepo** for internal use by developers.  
**Example Plugin:** JSON Schema Playground
  - API calls to a server to retrieve, create, and update JSON schemas.
  - Dynamic drop downs that get populated according to user's selections to navigate appropriate schema.
  - User has option of previewing retrieved schema as a form using **react-jsonschema-form** library.

**Owner | Mobile Car Detailing** | Edmonton, AB | 06/2018 – 09/2020

- Led opening of business and creation of operational procedures and advertisements/promotions.
- Trained teams on specific operations, applicable procedures, and techniques for each job site.

**Host | Tutti Frutti Breakfast and Lunch** | Edmonton, AB | 01/2018 – 09/2020

- Greeted guests and gathered information to seat groups or place on waitlist.
- Supported serving staff, food runners and bussers to keep dining room presentable and ready for guests.