

# Maaz Zaidi

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## Education

### University of Ottawa

Ottawa, ON

Honours Bachelor of Science with Major in Computer Science

September 2021 – Expected December 2025

- **Relevant Coursework:** Data Structures, Networks, Algorithms, Databases, Computer Architecture, OS

## Experience

### Ericsson

Sept 2024 - Present

Full-Stack Android Developer Part-Time

Remote

- Split responsibilities between **EIP FE** development and Android development for the **Ericsson 5G Scanner project**.

### Ericsson

May 2023 - Aug 2024

Full-Stack Android Developer Intern

Ottawa, ON, Hybrid

- Led a team of 2 interns in the design and development of **Ericsson's 5G Rapid Scanner Android app** for real-time 5G NR / 4G LTE network analysis. Utilized **Jira** and **Gerrit** to manage tasks and workflow in accelerated Agile sprints.
- Integrated **SSO** authentication via **MSAL** and **Azure**, securing access for **100,000+ internal users**.
- Enhanced **UX** with dynamic themes, and integrated **Mapbox API** for real-time geographic tracking and scanning.
- Implemented **iPerf3** servers for throughput testing over **Azure** for internal access, and optimized scan history search with **incremental loading**, reducing search and loading times by over **90%**.
- Built the app with **React Native** and **Typescript** front-end, using **Java** for security encryption and root detection, and **C++/ASP.NET** for backend iPerf libraries. Utilized **React Native Metro** and **Android Studio** for development.
- Applied Web application technologies as part of the Front-End team, utilizing **HTML5**, **Typescript**, **React** and **Redux**.

### Ross Video

May 2022 - Aug 2023

Software Developer Intern

Ottawa, ON

- Developed automated test software in **Python** to verify the integrity of Ross products, working closely with automation developers, verification specialists, and product developers as part of the SoftGear Team.
- Implemented **Python-based automation scripts** and created a network-connected GUI using **QT**, improving testing efficiency for Ross hardware by **80%** over the course of a year.
- Contributed to the company's internal **automation library**, extending its use across multiple projects.

### Digibionics

May 2021 - Aug 2021

Junior Web Developer Intern

Ottawa, ON

- Developed "MyHealthyHost" e-commerce platform using **HTML**, **React**, **CSS**, **Bootstrap**, and **JQuery**.
- Implemented **PHP** form submissions and launched the platform on **AWS**.

## Projects

### Expedition-Hotel Reservation Web App | Javascript, PostgreSQL, Express.js, HTML/CSS, React, Node.js, Python

- Developed a friendly UI using React with room filtering, account management, login authentication and booking
- Improved data querying by implementing a REST API for routing get, post, put and delete requests
- Optimized referential safety through normalization, triggers, views, and indexes to reduce query latency by 40%

### Concurrent Multi-Model RANSAC Estimator | Java, Python, Go

- Developed a 3D object visualization system in Java and Python using a RANSAC algorithm with KD-tree for efficient clustering and multi-model estimation in point clouds with outliers, rendering output via Open3D and Pandas.
- Optimized computation speed with concurrency pipelines, channels, goroutines, and anonymous functions in Go.

### Dauntless-Multi User RPG Economy Bot | C#, Javascript, MongoDB

- Developed a multi-user, economy-based game bot using C# and the Discord.Net API for server with over 50+ users.
- Migrated the bot to Node.js, MongoDB, and Java, integrating Axios, Discord.js, Canvacord, Mongoose, and Sharp

## Technical Skills

**Languages:** C, C++, C#, Java, Python, Javascript, Typescript, HTML/CSS, Bash, Go, Prolog, SQL, VB.NET, Robot-C,

**Frameworks:** Vue.js, Express.js, React, React Native, Next.js, jQuery, Bootstrap

**Technologies:** Node.js, REST APIs, GraphQL, MySQL, PostgreSQL, MongoDB, Redis, Git, QT Designer

**DevOps:** GitHub Actions, Google Cloud, Amazon Web Services