

James Bundgard

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Summary of Qualifications

Software developer with 4+ years of programming experience. My interests range from Web development to quantum computing, with a passion for high-quality software development.

Projects

PLAYLIST MANAGER | 2020

- An android app developed in **Kotlin** using **Android Studio** which plays Spotify playlists.
- Designed using an **MVVM architecture** and implements **Dependency Injection**.
- Interacts with the **Spotify Web API** and stores the responses in a **Room Database**.

PERSONAL WEBSITE | 2019

- A portfolio developed in **HTML, CSS, and JavaScript** to exhibit my web development abilities.
- Animated using **Bootstrap 4 and jQuery** to be user-friendly on both desktop and mobile.
- Developed using **Git/GitHub** as source control to allow better testing and track changes.

BATTLESHIP: VENGEANCE | 2018

- A 2D Battleship game created in **Python** to practice **object-oriented software** development.
- Implements a **minimalist UI** created using **Pygame** to improve user experience.

Experience

CYBER SECURITY DEVELOPER | CYNORIX | 2020

- Contributed to a **Node.js** cloud storage project using **MongoDB**, with **C#** and **Android** clients.
- Implemented **streams and pipes** for large server requests, **reducing upload times by 75%**, download times by 30%, and increasing the **maximum supported file size by 500%**.
- Began implementing custom encryption methodologies into an existing **C++ VPN**.
- Improved HTTPS certificate management and cloud deployments on **Azure**.

QA SPECIALIST | MIKUTECH / JOYDROP LTD. | 2019

- Developed a **Node.js** server to run a **RESTful API** that handled over **200 user signups**.
- Created a **PostgreSQL** database to record user information and interact with the server.
- Wrote various in-house tools with **.Net Core and Blazor**, as well as **React and TypeScript**.
- Improved a custom **Python** utility that helped prevent **Mercurial** merge conflicts.
- Updated the company's websites on **AWS** and deployed fixes using a **Jenkins** build pipeline.
- Designed and implemented **unit, integration, and regression** tests for various projects.

Education

BACHELOR OF COMPUTER SCIENCE CANDIDATE | UNIVERSITY OF WATERLOO

- In term 2B; Relevant courses: Elementary Algorithm Design and Data Abstraction (Advanced Level), Data Structures and Data Management, Object-Oriented Software Development.