Alex Derouchie

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Work Experience

Agnovi - Software Developer   **2020-Present**
- Developed user interface elements primarily in Java (SWT) & HTML according to client requirements to streamline workflow in Agnovi's flagship case management software.
- Created Configuration Import Tool to export/import system data between server instances. Utilized JDBC and Apache POI to perform database operations and spreadsheet interfacing. Designed queries and spreadsheet layouts to save clients 3-5 hours of startup configuration.
- Developed case charting features to display and output highly customized charts, which allowed clients to eliminate external charting software subscriptions.

Iawah Christian Ministries - Camp DON (Supervisor)   **2017-2019**
- Supervised 60 staff members, providing guidance, training and support to the team.
- Created curriculum, provided one-on-one mentorship and coordinated daily operations for Iawah's summer camp programs.

Project Experience

Backpack (www.backpack-inv.com)   **2020**
- Backpack is an inventory management website designed for individuals and small businesses.
- I designed the interface, database and backend using the Django (Python) framework.
- I used the Bootstrap CSS/JS framework to create a responsive layout for the website and implemented features such as user authentication and password recovery, inventory sharing, access control, and rich media support using AWS buckets.

FiefX   **2018-2019**
- Worked with a team of 4 to create a security, tracking and analytics system for bicycle riders.
- I created a mobile Android/iOS application using a React Native (JavaScript) interface, which made use of several APIs such as Redux (State Management), Firebase, and Google Maps API.
- I was responsible for integrating database and Bluetooth layers into the final application to provide seamless communication between the hardware device, database, and mobile app.

Education

BaSc in Computer Engineering, Magna Cum Laude   **2015-2019**
University of Ottawa

Technical Skills

- Strong programming experience in Java, Python, Javascript, and HTML/CSS
- Proficient in source-control techniques (Git, Subversion)
- Very comfortable working with relational databases (SQL Server, MySQL, Oracle). Basic knowledge of NoSQL databases.
- Experience with many IDEs including Eclipse, IntelliJ, VS, Android Studio, VSCode
- Working knowledge of key software engineering concepts (User stories, requirement based design, TDD), as well as many software structures (MVC, producer/consumer, client/server, etc.)
- Technical Interests: cloud computing/SaaS, agile development, algorithm design, responsive interfaces, database development