

Alex Derouchie

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Work Experience

Jatom Systems Inc. - Intermediate Software Developer

2022-present

- Designed scalable, reactive user interfaces using the latest Angular features.
- Implemented REST API-centered backends in .NET using SaaS principles.
- Took part in the DevOps process, developing tools to robustify our CI process.
- Working with customers to establish acceptance criteria, I developed custom dashboards curated to specific customers' data needs & visual preferences.
- Light experience developing data flows in both SQL and NOSQL (Solr).

Agnovi - Software Developer

2020-2022

- 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 import/export 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.

Project Experience

Backpack

- Backpack is an inventory management website designed using the Django (python) framework.
- I designed the CRUD flow using Django's built-in ORM, with a backend integrated into the app.
- I used the Bootstrap CSS/JS framework to create a responsive layout for the website and implemented features such as authentication, access control, and rich media using AWS S3.

FiefX

- I created a mobile app using a React Native to provide security, tracking and analytics to cyclists.
- The app used Redux state management and utilized Google's Firebase & Maps API's.
- 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 .NET/C#, Javascript/Typescript, HTML/CSS, Java, working across many tech stacks.
- Proficient in source-control techniques (Git, Subversion).
- Very comfortable working with relational and non-relational databases.
- Experience with many IDEs including Eclipse, IntelliJ, VS, Android Studio, VSCode.
- Working knowledge of key software engineering concepts (requirement based design, TDD/DDD), as well as software patterns (Factory, visitor, client/server, etc.).
- Technical Interests: cloud computing/SaaS, agile development, algorithm design, responsive interfaces, database development.