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## Alex Derouchie

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### Work Experience

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**Agnovi Corporation** - Junior Software Developer 2020-Present

- Collaborated with a team to develop, maintain and support case management software.
- Designed and implemented UI features to satisfy customer requirements.
- Created database structures across several providers to support front-end functionality.
- Used Eclipse BIRT engine to design and develop rich reporting features for several aspects of the system.

**lawah Christian Ministries** - Supervisor (Junior Camp) 2017-2019

- Supervised 60 staff members and provided guidance, training and support to the team.
- Created curriculum, established mentorship and coordinated operations for lawah's summer camp programs.

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### Project Experience

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**Backpack** ([www.backpack-inv.com](http://www.backpack-inv.com)) 2020

- Backpack is a clean, user friendly inventory management website designed for individuals and small businesses looking to be more organized.
- I designed and implemented this project using the Django framework in Python.
- 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 more.

**FiefX** 2018-2019

- Worked with a team of 4 individuals to create an embedded system capable of providing security, tracking and analytics to bicycle riders.
- I created a mobile Android/iOS application using platforms such as React Native (JavaScript), Node.JS, Google Cloud Platforms and APIs, Redux, and more.
- I was responsible for integrating/merging database and Bluetooth modules created by other members of the team using Git to create a functional system.

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### Education

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**BaSc in Computer Engineering, Magna Cum Laude** 2019

University of Ottawa

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### Technical Skills

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- Strong programming experience in Python, Java, Javascript, and HTML/CSS
- Proficient in source-control techniques (Git, Subversion)
- Experience with many IDEs including Eclipse, IntelliJ, VS, Android Studio, VSCode
- Knowledge of TCP/IP & UDP, OS fundamentals (Scheduling, Concurrency, etc.)
- Experience in Hardware design using VHDL
- Basic knowledge of Multi-layer Neural Networks and machine learning concepts
- Working knowledge of key software engineering concepts (User stories, requirements, Agile development), as well as many software structures (MVC, producer/consumer, etc.)
- Technical Interests: Networking & Internet technologies, Embedded design, Machine learning & AI implementations, Data algorithms