

Work Experience

Java Backend Web Developer at Dotdash (Edmonton, AB)

05/06/19 – Present (1 Year)

- Improve performance of web applications by implementing a layered Redis cache, resulting in significant decrease in wait time for users.
- Leverage knowledge in full stack web development and Chrome tools to resolve issues.
- Demonstrate leadership and teamwork by providing valuable insights and leading discussion topics.
- Monitor performance metrics and pioneer follow-up procedures to enhance user experience.
- Define new levels of flexibility by executing initiative to take on front-end tasks when needed.
- **Utilized:** Java, Spring, JSON, RestAPI, HTML, JavaScript, and CSS

Python Data Scientist at Dotdash (Edmonton, AB)

11/11/19 – 02/25/20 (4 Months)

- Designed and implemented a multi-threaded pipeline that extracted 100,000 images from HTML to be stored into a MongoDB.
- Utilized knowledge of NoSQL to develop scripts which automated the data extraction process.
- Streamlined the onboarding process for new employees and reducing wait times by over 30% by establishing a one-click environment installation to be used in Docker or new machines.
- Demonstrated understanding for unit testing by consistently writing tests that retained high coverage.
- **Utilized:** Python, Pandas, AWS EC2, and MongoDB

Education

University of Alberta, Edmonton, AB Canada

2014–2019

- **Major:** Bachelors of Comp Sci. Spec in Software Practice w/ Co-op (8 Months) **GPA: 3.0**
- **Coursework:** Algorithms II, Architecture and Design, Database Management, Web Applications, Software Quality, Intelligent Systems (AI), Operating Systems

Personal Projects

More projects: <https://ivanma.netlify.app/home>

Finanthropy (Data Hackathon – Placed top 5)

- Utilizing open banking APIs, developed a mobile web application to determine a user's "giving power" to local charities.
- Devised backend solutions using Firebase and Flask to analyze user behavior patterns.
- Implemented a predictive model based on data to categorize users into willingness to donate levels and suggested amounts for each level.
- **Utilized:** Python, Flask, Firebase, REST APIs, and AWS instances

Steps Web Application

- Working alongside a six-member team, to create a web application that allowed pedestrians to rate sidewalks in terms of comfort, safety, sense of security, etc.
- Integrated ArcGIS maps, and JavaScript to develop an intuitive and simple user interface.
- Hands on with Agile methodologies such as SCRUM, and planning poker
- **Utilized:** JavaScript, React, Python, Django, and ArcGIS