



EMMA NGO

Edmonton, AB

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TARGET:

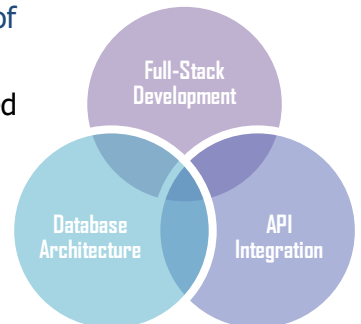
Full-Stack Development ~ Object-Oriented Programming ~ Database Design ~ Machine Learning & AI

Energetic and result-driven Junior Software Developer with experience in the areas of full-stack development, website design, database architecture and object-oriented programming. Proven track record in supporting company-wide technology and business transformation projects — gathering requirements, identifying user stories and assisting front-end design & back-end development efforts.

- » Object-Oriented Programming
- » Software Development
- » Full-Stack Development
- » Database Design
- » QA / Software Testing
- » Entity Relationship Models
- » Concept Development
- » SCRUM, Agile, Waterfall
- » API Integration

HIGHLIGHTS OF ACCOMPLISHMENTS

- ✓ Supported software development and machine learning at the University of Alberta — for the creation of a cloud data collection gaming platform.
- ✓ Presided over full-stack development of a distributed social network — utilized Python & Django for the development of application features and user profiles.
- ✓ Orchestrated database platforms and entity relationship diagrams — utilized SQLite & Heroku for the deployment and testing of cloud-based databases.
- ✓ Spearheaded application development, testing and deployment — designed volunteer management platform and led manual & automated testing.



- ❖ *Knowledge of Software Development Lifecycle and Agile Methodologies*
- ❖ *Utilized Selenium and QA Testing Tools for Manual & Automated Testing*
- ❖ *Good Understanding of Product Management, Software Patches and Updates*

EDUCATION / PROFESSIONAL COURSEWORK

Bachelor of Science with Distinction; Specialization in Computer Science

2022

University of Alberta; GPA: 3.6

General Sciences Studies

2019

Red Deer College

Professional Coursework: Software Processes & Product Management, Web Applications & Architecture, Security in a Networked World, Operating Systems, Intelligence Systems, Database Management

TECHNOLOGY SKILLS

Technology Skills: MS Office Suite, Programming Languages (Python, C, C++, Java, JavaScript, HTML5, CSS3), MS Visual Studio, Android Studio, WordPress, Linux (Red Hat, Ubuntu), UNIX, Django, ReactJS, Redux, jQuery, Ajax, SQL, PostgreSQL, Git, JSON, Selenium, REST, Cloud Environments (AWS, MS Azure), Docker

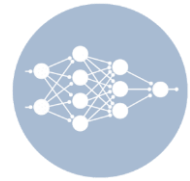
PROFESSIONAL EXPERIENCE & ACADEMIC HIGHLIGHTS

University of Alberta
Software Developer, Research Assistant

Edmonton, AB
2022–2023

Database Architecture ~ Mobile Application Development ~ Object-Oriented Programming

- ✓ **Machine Learning:** Contributed to software development & machine learning for a research project — assessed client needs for developing a machine-learning data collection gaming application. Aided web development using Docker and AWS environment.
- ✓ **Application Development:** Presided over the architecture of a web-based application — worked closely with clients for the design and development of water intake reminder application utilizing Django technology. Gathered feedback, orchestrated user interface, front-end & back-end design and verified integration.



University of Alberta
Software Developer, Student

Edmonton, AB
2019–2022

Full-Stack Development ~ Database Architecture ~ Software Development ~ Cross-Platform Applications

Studied non-procedural programming languages, computer architecture, software processes & product management, practical programming methodology, machine learning, AI and software engineering.

Supported Full-Stack Development, Cross-Platform Software Architecture and API Integration

- ✓ **Front-End Design:** Led front-end design and contributed to SDLC — worked with a team of student developers to develop a volunteer management platform for YRAP. Utilized JavaScript, HTML & CSS for designing GUI, orchestrated functionality, layout & colour schemes, performed testing and verified API integration.
- ✓ **Full-Stack Development:** Architected distributed social network using full-stack development — employed object-oriented programming, Python and Django to design & test features and create user profiles & comment sections. Tested social media integration with key sites including Facebook, LinkedIn, Twitter and GitHub.



Spearheaded Database Architecture, Entity Relationship Diagrams and Object-Oriented Programming



- ✓ **Database Design:** Led the architecture of a database platform — used Bootstrap library for front-end design and SQLite for the architecture of entity-relationship database model. Utilized Heroku (PaaS) for the deployment and testing of database in a cloud environment. Validated API integration for distributed social network apps.
- ✓ **Android Applications:** Presided over android development for a crowd-sourced testing application — followed MVC architecture & object-oriented programming and used Firebase for the design of a NoSQL real-time hosting database. Developed front-end & back-end design, created user profiles and tested experiments & trials.