DEREK DUONG

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OBJECTIVE

Software engineering student with a solid understanding of software design, development, and testing. I aim to create scalable, practical, and useful software.

EDUCATION

University of Guelph
Honours Bachelors of Computing (CO-OP) - Software Engineering — Expected 2026

- Minor in Mathematics

SKILLS

Technical Skills	C, Java, Python, Javascript, Html, CSS, SQL
Soft Skills	Agile, Waterfall, Customer Service, Team Management
Management & Tools	Github, Trello, Slack, Git, Docker, Gradle, AWS
Frameworks	React, Express.js

PROJECTS

MNIST Neural Network — *Python, Jupyter Notebook*

- Developed **Neural Network** from scratch using **Python** to analyze **MNIST dataset** which helped familiarize oneself with machine learning and development
- Gained familiarity of machine development and **Jupyter Notebook**
- Gained Familiarity with **Python libraries: numpy, matplotlib and pandas** while developing **Neural Network**

Molecule Viewer — *Javascript, Python, JQuery, SQLite, HTML, CSS, C*

- Developed full-stack application with the abilities to view, upload, and rotate elements on the periodic table. Utilized **Python**, **C**, **HTML**, **Javascript**, **CSS**, **JQuery**, **DOM**, and **SVG files**.
- Implemented **SQLite** to store Molecule Data and perform **read** and **write** operations
- Applied **SWIG** to deploy **C** functionality with **Python** HTTPS Server
- Utilized **Ajax** to transfer **JSON** data to the server and client

MERN Stack Project Manager — *React, Mongo.db, Express.js, Javascript, Node.js, Bootstrp, GraphQL, Apollo*

- Developed a full-stack project manager application using a **MERN Stack (Mongo.db, Express.js, React, Node.js**, **HTML**, and **CSS** to familiarize oneself with full-stack development
- Utilized **GraphQL** and **Mongo.db** to implement full **CRUD** functionality
- Utilized **Bootstrap** to implement dynamic styling and UI

WORK EXPERIENCE

Student IT Technician - University of Guelph CCS — Jan 2024 – Current

- Designed, implemented, and documented process improvements which resulted in increased work efficiency and results.
- Oversaw the diagnosis and replacement of failed hardware components, ensuring a tool's optimal performance through systematic testing and component evaluation, which minimized downtime and maintained high security standards.