

# Duy Bao Nam (Tyler) Dao

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## TECHNICAL SKILLS

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**Programming Languages:** C, C++, C#, Java, JavaScript, HTML, CSS, Python, SQL.

**Operating Systems:** Windows, Linux Ubuntu.

**Tools & Software:** Visual Studio, Visual Studio Code, Eclipse for Java, Git, Wireshark, Suricata, Figma.

**Database:** MySQL, MariaDB, PostgreSQL, MongoDB

**Frameworks & Libraries:** Next.js, .NET MAUI, React.js.

**Core Competencies:** Automated Testing, Debugging, OOP, Software Development Life Cycle, Computer Network System, Network Security, Software Security.

## EDUCATION

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### Bachelor of Computer Science (Honors)

September 2023 - Present

Specialization: Cybersecurity

GPA: 3.63/4

Conestoga College, Waterloo

(Expected Graduation: August 2027)

## PROJECTS

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### HR Management System

- Leader in a team of 3 members.
- Developed a server-client architecture for a human resource managing system using Python for server-side logic and React Framework for client side.
- Connected front end and back end by RESTful API with data being encrypted securely.
- Implemented database management using MongoDB with efficient queries to retrieve data.
- Set up CI/CD pipeline on GitHub Action to make sure the project is always in production-ready stage.

### Leaf Laugh Love

- Developed a server-client architecture for an e-commerce system using Java Swing for the client interface and Java for server-side logic.
- Implemented database management using MySQL, handling orders and plant data, and responding to client requests.
- Integrated Socket programming for client-server communication to process orders and send status updates in real-time.
- Designed and built a client application that allows users to browse plants, place orders, and view order status updates.

### DriveTracker

- Developed DriveTracker, a C# .NET MAUI mobile application that tracks vehicle speed and calculates a driver's score based on speed violations.
- Integrated an API to retrieve real-time road speed limits and compared them with actual driving speed for accurate violation detection.
- Utilized Azure for cloud-based data storage and syncing of driving records, ensuring scalability and data integrity.
- Followed Agile methodology throughout the development lifecycle, implementing iterative improvements and rapid prototyping for user feedback.

- Enabled cross-platform compatibility, allowing the app to run on both Android devices and through Visual Studio's Android emulator.

### Handwritten Digits Prediction

- Developed a Convolutional Neural Network (CNN) to predict handwritten digits from screenshots with no external lighting conditions.
- Achieved 99.08% validation accuracy and 5.1% validation loss, demonstrating high model performance.
- Preprocessed image data by converting to grayscale, resizing, and normalizing for optimal training efficiency.
- Designed and implemented a multi-layer CNN architecture using TensorFlow.
- Gained hands-on experience in deep learning, and model optimization.

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### **ADDITIONAL SKILLS**

- Strong analytical and problem-solving skills with hands-on experience in troubleshooting technical issues.
- Ability to write detailed technical documentation and standard operating procedures.
- Adept in organizing training sessions and providing clear instructions.
- Excellent verbal and written communication skills.
- Advanced knowledge of Microsoft Office 365.
- Fluent in English, Vietnamese, and basic communication in French.

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### **CERTIFICATE**

- [Google Data Analytics](#)