# Jared Duong

86 Juliebeth Dr, Hamilton, ON L9B 0B1
289-775-1750 jaredduong04@gmail.com linkedin.com/in/jared-t-duong github.com/Jared06Duong

## Education

**Bachelor of Engineering in Computer Engineering** **Sep. 2024 – Apr 2029**
*University of Guelph* *Guelph, ON*

## Relevant Coursework

- Intro. Programming (C++)
- Object-Oriented Programming (Java)
- Data Structures
- Digital Systems Design
- Engineering Systems Analysis
- Electric Circuits
- Computer Organization
- Probability & Statistics

## Experience

**Production Engineering Intern** **May 2025 – Aug 2025**
*Hartmann North America* *Brantford, ON*

- Operated and monitored automated manufacturing machines, interpreting sensor data and panel outputs to resolve issues, helping cut equipment downtime by **15%**.
- Applied embedded systems knowledge and data-driven analysis to improve production monitoring, contributing to a **10%** increase in process consistency and output quality.

**Game Developer** **Apr 2023 – Jun 2023**
*McMaster University* *Hamilton, ON*

- Collaborated with faculty and peers to design educational tools using **C#** in Unity, improving student engagement through gamified learning mechanics.
- Designed and developed responsive web interfaces using **HTML, CSS, and JavaScript**, ensuring compatibility and engagement for 200+ users across devices.
- Implemented modular and reusable code structures to streamline development, improve maintainability, and support future enhancements.

## Projects

**University Management System** | *Java, JavaFX, SQL, Git* **Mar 2025 – Apr 2025**

- Designed and built a full-stack university portal from scratch with features like course management, student enrollment, faculty assignment, and scheduling.
- Coded the core logic and database structure using **Java** and **MySQL**, integrating modular features with **JavaFX** for the front end.

**TBWC - Teddy Bear Wheelchair Project** | *Arduino, C++, SolidWorks* **Sept 2024 – Dec 2024**

- Designed an Arduino-powered autonomous wheelchair prototype with fault-tolerant motor control and sensor integration for precision navigation.
- Conducted center of mass analysis, tipping analysis, and cost evaluation to refine the design, showcasing proficiency in engineering problem-solving and data-driven optimization.

## Technical Skills

**Languages**: Java, Python, C, C++, SQL, C#, Arduino, HTML, CSS, JS
**Frameworks & Engines**: Unity, .NET, JUnit, Pygame
**Developer Tools**: IntelliJ IDEA, CLion, Visual Studio, Visual Studio Code, GitHub, Unity Editor, SolidWorks, Fusion 360, AutoCAD
**Libraries**: pandas, NumPy

## Leadership / Extracurricular

**Robotics Club - Team Member** **Sept 2024 – Present**
*University of Guelph* *Guelph, ON*

- Designed and programmed autonomous robotic systems for the Canadian International Robotics Competition (CIRC), optimizing sensor integration and control algorithms using C++ and Arduino.
- Created and prototyped mechanical components using CAD software, collaborated with team members to troubleshoot issues and optimize performance.