

RODRIGO WONG MAC

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WORK EXPERIENCE

BASL Inc.

May 2024 – Present

Software Engineer Intern

Burlington, ON

- Involved in development using MVC design with **Vue.js, Laravel, and Inertia**
- Integrated **third-party APIs services** through **OAuth 2.0 authentication**
- Developed an optimized marketing feature that automates ad publication through the **Meta Marketing API and Google Ads API**, projected to **boost revenue by 15%**
- Leveraged **OpenAI API** to provide a refined AI-assisted user experience
- Assisted in implementing **CI/CD services** using Bitbucket Pipelines

Mohawk College

Oct 2023 – Apr 2024

Junior Full-Stack Developer

Hamilton, ON

- Developed an AI-assisted handwriting transcription system using Google Vision API for the Canadian Warplane Heritage Museum, **reducing historical document transcription time by 33%**
- Developed automated grading systems through **PowerShell scripts** based on results of unit tests
- Designed and developed dynamically generated feedback webpages using **HTML/CSS and JavaScript**
- Developed **RESTful APIs** utilizing **XAMPP stack**

Mohawk College

Jan 2023 – Apr 2024

Programming PASS Team Lead / Tutor

Hamilton, ON

- Assisted in the hiring and training process of 11 programming tutors
- Provided academic support to Python, JavaScript, Java, and C# courses
- Led the team to have the **highest overall student participation rate of 49%**
- Participants had an average of **24% higher final grades** than the course average

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, PHP, Java, C#, PowerShell, HTML/CSS
- **Databases:** MS SQL, PostgreSQL, MySQL, MongoDB, Redis
- **Tools/Frameworks:** Node, Express, React, Vue, Flask, Laravel, Spring Boot, .NET, Docker, Git, Selenium, AWS

PROJECTS

Codellab-IDE (Mohawk College – Learning Support Centre)

Description: A web-based Python compiler designed to enhance tutor-student engagement through pair programming, encouraging collaborative learning for the Peer-Assisted Study Session (PASS) program.

Project URL: codellab-ide-client.onrender.com

Stack: **Express.js, Node.js, React.js, MongoDB, PyTorch, Flask**

- Website has had over **1000+ users**
- Contains a synchronized Python editor that supports live updates using **WebSocket (socket.io)**
- Features a trained **Conversation AI model** developed to answer Python related queries

EDUCATION

Mohawk College

Sept 2022 – Dec 2025

Advanced College Diploma – Software Development

Hamilton, ON

- **GPA: 92.9%**
- **Microsoft Certified:** Azure Fundamentals (October 2023)

McMaster University

Sept 2016 – Apr 2021

Honors Bachelor of Commerce

Hamilton, ON