

RODRIGO WONG MAC

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TECHNICAL SKILLS

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

WORK EXPERIENCE

BASL Inc. May 2024 – Present
Software Engineer Intern Burlington, ON

- Involved in development using **Vue.js, Laravel, and Inertia** while practicing **TDD** methodology
- Integrated Zoom application into the BASL system by implementing **OAuth 2.0 authentication** and synchronizing data between the two platforms
- Integrated SMS and Call features using Vonage API
- Leveraged **OpenAI prompting** to provide a refined AI-assisted user experience
- Assisted in implementing **CI/CD service** 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Google Vision API in collaboration with the Canadian Warplane Heritage Museum , **reducing the manual transcription of historical documents time by 33%**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
PASS Team Lead / Programming Tutor Hamilton, ON

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

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 in the Peer-Assisted Study Session (PASS) program.

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

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

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

EDUCATION

Mohawk College Sept 2022 – Apr 2024
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