

RODRIGO WONG MAC, BComm. (Honours)

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OBJECTIVE

I am a Software Development student seeking a co-op opportunity in the technology sector. With 1.5 years of full-stack development experience and over 4 years in finance, my goal is to actively contribute to the tech industry's growth and innovation while continuously improving my skills in this dynamic field.

EDUCATION

Advanced College Diploma: Software Development

Exp. Grad: Dec 2025

Mohawk College

Hamilton, ON

- Currently enrolled in Semester 4 of the three-year co-op program
- Current **GPA of 93.9%**

Honors Bachelor of Commerce: Finance

Sep 2016 – Apr 2021

McMaster University

Hamilton, ON

TECHNICAL SKILLS

- **Languages:** JavaScript, Java, C#, PHP, Python, PowerShell, HTML/CSS
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools/Frameworks:** React, Express, Node, Spring Boot, Laravel, ASP.NET, Flask, Selenium, WordPress, Bootstrap, MaterialUI, ChakraUI, Postman

WORK EXPERIENCE

Junior Full-Stack Web Developer

Oct 2023 – Present

Mohawk College

Hamilton, ON

- Design and develop dynamically generated feedback webpages using **HTML/CSS** and **JavaScript**
- Develop **REST APIs** utilizing **PHP** and **MySQL**
- Develop automated grading systems through **PowerShell scripts** based on results of **Junit** tests
- Develop databases using **Google's OCR API** for handwriting recognition and **DeepFace** for facial recognition based on media sources obtained from the **National Air Force Museum of Canada**

PASS Team Lead – Programming

Sep 2023 – Present

Mohawk College

Hamilton, ON

- Train and lead a team of **11 tutors** to facilitate tutorial sessions tailored to Computer Science students
- Assist management with the technical interview of the hiring process of programming tutors
- Lead weekly meetings and professional development workshops (**Git, Jira, Bitbucket**)
- Led a team with the **highest student participation rate of 53%** in the 10 years of the PASS program

PASS Tutor – Java / Python

Jan 2023 – Aug 2023

Mohawk College

Hamilton, ON

- Provided academic support to the Programming Fundamentals and Programming in Java courses
- Organized and facilitated up to 5 weekly tutorial sessions of up to 33 students
- Tutored **47% to 63% of the total students**
- Participants had an average of **22% to 29% higher final grades** than the course average

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PROJECTS

Codellab-IDE (Learning Support Center – Mohawk)

Description: A web-based Python compiler intended to increase collaboration and participation between tutors and students for the Peer-Assisted Study Sessions (PASS) program at Mohawk College.

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

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

- Contains a synchronized Python editor supporting live updates and simultaneous typing among users
- Includes real-time chat feature using **WebSocket (socket.io)**
- Features a **Conversation AI (Python-Chatbot)** developed to answer Python specific intents

Remembering Their Faces (Mohawk IDEAWORKS)

Description: Currently in development, this project aims to provide a website that uses facial recognition and OCR technology to filter medias collected from the National Airforce Museum of Canada.

Project URL: rememberingtheirfaces.ca

Stack: **PHP, MySQL, DeepFace, HTML/CSS, JavaScript**

- Developed a script to automate daily posts on Twitter and Facebook using their developer APIs
- Implemented **Google Analytics and reCAPTCHA** to the landing webpage
- Wrote a script to send customized emails to subscribers whenever the project goes live

VanishVault (Bell Geekfest Hackaton)

Description: A web application developed with 3 teammates at the **2023 Bell Geekfest Hackathon** that enables authenticated users to securely exchange sensitive data on the web, with the added feature of automatic data deletion once read.

Stack: **MongoDB, Express.js, Node.js, and React.js**

- **End-to-end encryption** using asymmetric encryption system
- Automated email validation and API protection using **JSON Web Token**

Quizzer (Learning Support Center – Mohawk)

Description: A REST API that generates randomized Python and Java questions for the PASS program at Mohawk College with the intent to provide additional practice material.

Stack: **Spring Boot, PostgreSQL**

- Utilized **JPA and Hibernate** to integrate a PostgreSQL database

CERTIFICATIONS

- **Microsoft Certified: Azure Fundamental (Issued: Oct 2023)**

VOLUNTEERING

Mohawk Code Ready Club – Web Developer

Website URL: codereadymohawk.org

- Collaborated within an Agile team of 4 developers to develop the club's webpage using React.js
- Website is used by over 200 members of the club