

# RODRIGO WONG MAC, BComm. (Honours)

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## OBJECTIVE

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I am a Software Development student actively pursuing a co-op position within the fintech industry. My goal is to gain valuable experience, refine my specialized skills, and apply my 1.5 years of experience in full-stack development and my 4+ years of experience in finance to contribute to the growth of the fintech sector.

## EDUCATION

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### 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

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- **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

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### 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

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### 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](https://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](https://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

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

## VOLUNTEERING

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### Mohawk Code Ready Club – Web Developer

*Website URL:* [codereadymohawk.org](https://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