RODRIGO WONG MAC

Hamilton, ON | rodrigo.wong-mac@mohawkcollege.ca | (416) 268-3685

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OBJECTIVE

I am a Software Development student seeking a co-op role to apply my 1.5 years of full-stack development experience and over 4 years in financial expertise to foster innovation and growth within the tech sector.

EDUCATION

Advanced College Diploma: Software Development   Sep 2022 – Dec 2025

Mohawk College   Hamilton, ON

- Currently enrolled in Semester 4 of the three-year co-op program
- Current **GPA of 93.9%**
- Microsoft Certified: Azure Fundamentals (Oct 2023)

Honors Bachelor of Commerce: Finance   Sep 2016 – Apr 2021

McMaster University   Hamilton, ON

TECHNICAL SKILLS

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

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 Vision 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 (Mohawk College – Learning Support Centre)

Description: A web-based collaborative 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, NLTK, Flask, MongoDB, Express.js, Node.js, React.js**

- Contains a synchronized Python editor supporting live updates and simultaneous typing among users
- 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, HTML/CSS, JavaScript**

- Scripted automated email notifications and daily posts using **PHPMailer, Twitter and Facebook APIs**
- Implemented **Google Analytics and reCAPTCHA** to the landing webpage

MoChat (Personal Project)

Description: A chatting social media platform with group and direct messaging features.

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

Project URL: mochat-client.onrender.com

- Real-time messaging feature through **WebSocket (socket.io)**
- Stores user information in a hashed format

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.

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

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

Task-Manager (Personal Project)

Description: A CRUD full stack web application that tracks tasks based on priority level.

Stack: **Laravel, Vue.js, MySQL**

- Implemented API protection using **Laravel Sanctum** authentication system
- Front-end built with **Bootstrap**

VOLUNTEERING

Mohawk Code Ready – Web Developer

Website URL: codereadymohawk.org

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