RODRIGO WONG MAC

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TECHNICAL SKILLS

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

WORK EXPERIENCE

Software Engineer (Co-op & Junior)   May 2024 – Present
BASL Inc.   *Mississauga, ON*

- Develop and maintain digital real estate solutions using **Laravel (MVC), Vue.js, and MariaDB**
- Design and developed an automated ad system leveraging Meta and Google ad platforms
- Enhanced the internal CRM system by integrating Gmail automation to streamline workflows
- **Wrote 500+ unit test cases** to ensure robust functionality and reliability

Research Assistant – AI & Software Development   Feb 2025 – Apr 2025
Mohawk College   *Hamilton, ON*

- Integrated **LLM models and LangChain** for AI-driven ESA report generation
- Developed and optimized web applications using **Flask, React.js, and PostgreSQL**
- Design and integrate APIs while maintaining documentation using Swagger
- Leveraged NGINX and managed SSL certificates to enable secure deployment

Full-Stack Developer   Oct 2023 – Apr 2024
Mohawk College   *Hamilton, ON*

- Spearheaded an AI-powered handwriting transcription system leveraging Google Vision API
- Wrote **PowerShell automation scripts** to streamline grading processes based on unit test results
- Designed dynamically generated feedback webpages using **HTML/CSS, JavaScript**, and **ChartJS**
- Developed **RESTful APIs** utilizing **XAMPP stack**

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

- Website has had over **1000+ users**
- Leveraged **WebSocket (socket.io)** for real-time communication and code editor synchronization

EDUCATION

Advanced College Diploma – Software Development (Co-Op)   Sep 2022 – Dec 2025
Mohawk College   Hamilton, ON

- **GPA: 93.2%**
- **Microsoft Certified:** Azure Fundamentals (October 2023)

Bachelor of Commerce (Honours)   Sep 2016 – Apr 2021
McMaster University   Hamilton, ON