

# Anthony Wong

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## Junior Software Engineer

### SUMMARY OF QUALIFICATION

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- Post-secondary education in software engineering
- Proficiency in multiple programming languages, including JavaScript, SQL, HTML, JSON, Java, and Python
- Excellence in relational database management system
- Experience in Agile methodologies such as Scrum
- Familiar with test automation tools like Selenium
- Familiar with RESTful web services
- Knowledge of Microsoft and Linux operating systems
- Okay at troubleshooting networks equipments
- Okay at Eclipse development environment

### TECHNICAL SKILLS

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- Front-end: Next, React, Redux, Bootstrap, Tailwind CSS, Sass
- Back-end: ExpressJS, .NET, RESTful
- Database: OracleSQL, MongoDB
- Testing and Development Tools: Git, Postman, Selenium, Mocha, Jest
- CI/CD: Docker Swarm, Kubernetes, AWS ECS
- AWS: EC2, S3, Lambda
- DNS: Cloudflare, AWS Route 53
- UX/UI Design: Figma

### PROJECTS

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#### Aspiring Ingenuity

Worked as a developer in an professional Scrum team, designed and developed a cloud-based web and mobile application as a staffing management solution

React/Figma/NodeJS/MongoDB/AWS/Agile

- Enhanced the ReactJS frontend of a cloud-based web staffing management service to increase the code readability and improve the development speed by 40%
- Assisted teammate resolving technical challenges such as customized interactive calendar, getting user availability radius using react google map API, which accelerated the sprint by 15%
- Utilized Figma to draft over 50 web and mobile user interfaces, resulting in 60% increase in client satisfaction

#### Full Stack Project - Aloha Rental

[Link to Demo](#)

MERN stack/TypeScript/Heroku/AWS EC2/Docker/Agile

- Collaborated with 8 members to design and implement a car rental system from scratch within 2 months
- Played a key role in both frontend and backend development, focusing on implementation of user interface elements, external libraries such as AWS sdk, and user authorization and authentication
- Migrated the app from Heroku to AWS Free Tier Instance with Docker Swarm to save 100% hosting cost, enable resource utilization and ensure 95% uptime

#### Machine Learning Project - Stop Sign Object Detection

[Link to Demo](#)

Python/Colab/TensorFlow Lite/Android Studio/Object Detection/LabelImg

- Downloaded and annotated over 150 images with Open Image and LabelImg for model training
- Trained an accurate and efficient object detection model with 70% AP score

## Selenium Automated Test Scripts for User Registration and Login

[Demo Video](#)

MERN Stack/Selenium/Mocha

- Programmed automated test scripts which simulate each user interaction within 0.5s, validate the functionality, and ensure application reliability

## Restful API - COMP214 Airlines

[Demo Video](#) | [Link to Demo](#)

ExpressJS/OracleDB/PL SQL/Oracle Cloud Autonomous Database/EJS/Docker

- Collaborated actively with 3 members to design an Entity Relationship Diagram (ERD) with 8 entities and created oracle cloud SQL database with 100 % uptime

## Restful API - Survey Horse

ExpressJS/MongoDB/ChartJS/EJS

- In a team of 4 members, developed the database, back-end Restful API for surveys, and user authorization and authentication

## Individual Project - Socket.IO Chat App

[Link to Demo](#)

MERN Stack/Socket.IO/TypeScript/AWS EC2/ Docker

- Enabled real-time bi-directional communication between server and client using Socket.io library

## Individual Project - Web Scraping with Python

[ReadMe](#) | [Link to Demo](#)

Python/Beautiful Soup/ExpressJS/Docker

- Executed Python script on NodeJS scraping podcast information to JSON files with BS5 library

## WORK EXPERIENCE

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### Student Researcher (UX/UI and Frontend) WIMTACH - Toronto, ON

10/2022 - 1/2023

React/Figma/NodeJS/MongoDB/AWS/Agile

## EDUCATIONS

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2021 - 2023 Post-Secondary Diploma in Software Engineering Technician

(GPA: 4.36/4.5)

**Centennial College**

2014 - 2018 BEng (HONS) in Civil Engineering

**The Hong Kong Polytechnic University**

## TRAININGS

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- Udemy - Learn and Understand NodeJS
- LinkedIn Learning - Learning Docker
- LinkedIn Learning - Node.js: Real-Time Web with Socket.IO
- LinkedIn Learning - Python Essential Training
- LinkedIn Learning - Agile Fundation
- CertiProf - SCRUM Foundation Professional Certificate (SFPC)
- PMI - Agile Kickoff Badge
- Sololearn - C Sharp Course Certificate

## OTHER EXPERIENCE

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### Assistant Civil Engineer

WSP (Aisa) Limited

2018 - 2021

## ACHIEVEMENTS

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Fall 2022 FundEvolve Hackathon at WIMTACH - Winner of website UX competition

[Link](#)

- Participated in a Finance Web App design hackathon with around 20 participants organized in 5 groups
- Collaborated effectively with a team of 3 members, contributing to the ideation, wireframing, prototyping, and UI/UX design