Randy Huynh

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# Technical Skills

**Languages**: Java, Python, C, SQL, JavaScript, HTML5, CSS, PHP, System Verilog, Verilog

**Frameworks**: ReactJS, ExpressJS, NodeJS, Junit, Bootstrap, jQuery, AJAX, RestApis

**Developer Tools**: Git, VS Code, Jupyter Notebooks, IntelliJ, Eclipse, Android Studio, Git Bash, MySQL, XAMPP, PostMan

**Libraries**: Pandas, NumPy, Matplotlib, Selenium, Tensorflow, Keras, JDA

# Experience

**Web Developer** May 2023 – September 2023

*Walk With Web Toronto, ON*

* I was responsible for full-stack development of responsive websites, enhancing user interfaces for improved user experience and **reducing load times** by up to **60%**.
* **Developed** a **PHP** and **MySQL** solution with a primary focus on **minimizing server hits**, enabling **efficient front-end data retrieval**. In the back end, **strategically employed AJAX and jQuery** for **asynchronous data processing**, ensuring **optimal server performance** and **reduced load**.

**Computer Support Assistant** Apr. 2019 – May 2023

*York University Toronto, ON*

* Utilized **Cherwell Service Management** and **Halo Service Desk** ticketing systems to document resolutions for all tickets and produced troubleshooting guides for the team, complete with images, detailed descriptions, and strategic insights.
* Created a personal **user-friendly graphical interface**, to streamline routine tasks using **Python** and the **Selenium** library

# Projects

**Travel Tracker** |***PostgreSQL. ExpressJS, NodeJS, Javascript, Axios, HTML, CSS, EJS*** | [**Github**](https://github.com/artmedia1/Practice/tree/main/The%20Complete%202023%20Web%20Development%20Bootcamp/Sections/Section%2033%20-%20PostgreSql/33.8%20-%20Family%20Travel%20Tracker)

* Developed a web application enabling travel tracking on an **Interactive map**, with a **PostgresSQL** database backend to store user data and travel history.
* **Crafted** a responsive UI with **EJS** and **CSS**, and managed server-side operations using **ExpressJS** and **NodeJS**, ensuring efficient data handling and user experience

**Climate Quest** |***ExpressJS, NodeJS, Javascript, Axios, HTML, CSS, Bootstrap, AWS*** | [**Github**](https://github.com/artmedia1/Practice/tree/main/The%20Complete%202023%20Web%20Development%20Bootcamp/Sections/Section%2029%20-%20Capstone) | [**Demo**](https://climatequest.randy-huynh.com/search)

* Developed and deployed a responsive website on AWS that utilized **OpenAI** for tailored activity and attire recommendations based on location and weather conditions sourced from **third-party APIs**.
* Implemented **Serverless framework** and handled API requests using **Axios** and **Express Middleware**

**Capstone Project: Pollen Classification Neural Network** |***Python, Tensorflow, Keras, Pandas, Matplotlib, Seaborn, NumPy***

* Developed a Neural Network model for pollen classification based on thousands of data features inputs.
* Created using **Python** for core development and data manipulation, **Tensorflow** and **Keras**
* Utilized **Matplotlib** and **Seaborn** to craft insightful **data visualizations**, elevating user experience

**Alphen - Personal Discord Bot** |***Java, Java Discord API, Reddit API, Google API* |** [**Github**](https://github.com/artmedia1/Alphen)

* Developed a Java-based Discord bot centralizing features from various websites.
* Utilized Java Discord **API**, integrating Google Search and trending Reddit threads via **APIs**.
* Adopted the **Command pattern** for **modularity** and **future expansions**.

# Education

**York University** Toronto, ON

*B.Eng, Specialized Honours in Computer Engineering Sep. 2018 - Dec. 2023*

* **Relevant Coursework:** Computer Vision, Machine Learning and Pattern Recognition, Fundamentals of Data Structures, Software Design, Software Engineering Requirements, Software Engineering Testing, Introduction to Database Systems, Operating Systems, Advanced Object-Oriented Programming

**Seneca College -** President's Honour List**,** 3.6 GPAToronto, ON

*Ontario College Advanced Diploma in Mechanical Engineering Technology - Industrial Design Aug. 2015 – May 2018*