Owen Ng

🌐 Website 🔗 LinkedIn ✉ s.nigelowennlc@gmail.com ⌂ Owen-Ng

WORK EXPERIENCE

Software Developer   **August 2021 - Present**
TCS Canada

- Programmed using relational SQL database to efficiently filter users data in Microsoft Server Management Studio used for front-end development.
- Implemented a Cron job in Cloud Native IAAS virtual machine with Bash to backup the global security governance and Security Access Management system to minimize disruption in case of code failures.
- Automated certification process to remove roles, privileges and entitlements to targeted users resulted in a 95**%** improvement in execution time and efficiency using JAVA and XML.

Software Developer   **January 2021 - April 2021**
Housee Technologies

- Maintained the middleware layer for software development and created back-end API to fetch information from Housee technologies database for customers to interact with.
- Constructed the back-end and front-end using React Ts, CSS, NodeJS, and MongoDB.
- Created a Search Engine and Filter functions to help users on their properties' search.
- Improved the load time of the listing page by 99% by modifying the back-end schema and data structures.

Teaching Assistant   **January 2021 - April 2021**
University of Toronto

- Taught web development framework/programming namely JavaScript, CSS, HTML, PHP, NodeJs,   ReactJs and testing best practices to a class of 40 students through exercises and lectures while maintaining at least 82% attendance rate.
- Worked with professor to create lessons around the curriculum and for upcoming tutorial.

EDUCATION

University of Toronto   **September 2017 - June 2021**
Honors Bachelor Of Science
Major in **Computer Science** and Economics, Minor in mathematics
Relevant coursework: Data Structures and Analysis, Theory of Computation, Operating Systems, Introduction to Machine Learning, Databases, Foundations of Econometrics, Programming on the web.
Certificates: Ultimate AWS Certified Cloud Practitioner, Blockchain A-Z

SKILLS

- **Programming**   Python, Java, C, C++, C#, Solidity, JavaScript, PHP, TypeScript
- **Web**   Elastic Compute Cloud (EC2)**,** HTML, CSS, PostgreSQL, MongoDB, Neo4J
- **Frameworks**   CI/CD, Docker, React, Mongoose, Express, CORS, Git, NodeJS

Projects

Oslyn (oslyn.io)
Music Accompaniment cross platform mobile application powered by AI.

- Developed the front-end with React Native for better structure, scalability and speed.
- Connected the AI chord prediction model using Android Studio to React Native through callbacks and promises to handle asynchronous events.
- Coded the AI chord prediction model using Tensorflow for faster build, execution time and better mobile platforms support.
- Conducted data collection to improve AI prediction using Selenium.

Leos Marketplace (Leos Marketplace (dc3zx7drpcc5t.cloudfront.net)**)**
Web3.0 chained within Mumbai Polygon test network

- Built 2 contracts in Solidity to interact, create and trade NFTs in a range of collections repository within the decentralized Mumbai network using Hardhat to deploy and test the contract.
- Carry out the responsive front end layout using ReactJs, React Hook, Styled Components and TailwindCSS for scalability and readiness.
- Communicate with the contract using Ether.js and Metamask to make the interaction between the contract and wallet user friendly.
- Deployed in S3 and Cloudfront for fast global load time, and cheaper package.