Dennis Lam

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EDUCATION AND CERTIFICATES

Bachelor of Applied Science, Electrical and Computer Engineering　　Toronto, ON | 09/2018 - 04/2023
UNIVERSITY OF TORONTO

Azure Fundamentals Certification　　Toronto, ON | 05/2020
MICROSOFT

EXPERIENCE

ROYAL BANK OF CANADA - WEALTH MANAGEMENT | SOFTWARE ENGINEERING INTERN
Toronto, ON | 05/2019 - 08/2019

- Lead and implemented a query analysis tool for handling over 20 000 user profiles (**MySql, C#, Visual Studio**)
- Collaborated with a team of 5+ lead developers to develop an API for banking and accounting statistics
- Developed automated testing programs for over 20 UI features and several databases for required QA testing and debugging (**Java, Spring Boot, JSON, XML, RESTful API, MongoDB**)
- Updated and maintained 2 testing frameworks while coordinating testing between web development and quality assurance teams to account for new versions of the Wealth Management web application

PROJECTS

AWS HOBBY WEBSITE　　REACT.JS, JEST, AWS, DOCKER
AWS multi-container website for personal software showcases and to host solutions to my side projects/hobbies ↗

- https://github.com/Funinja/AWS-website ↗
- Uses custom docker images to test and develop the website using **Jest** and **Docker Compose**
- Applied CI/CD practices by utilizing **Github Actions** to automate testing, building, and **AWS** deployment of test, development, and production **Docker** containers
- Setup and customized **AWS IAM** roles and **AWS Elastic Beanstalk** environment for AWS Docker deployment

DYNAMIC NEXT.JS PRODUCTIVITY WEBSITE　　NEXT.JS, JAVASCRIPT, MONGODB, NODE.JS
Designed a productivity website with custom productivity features organized between 5 web pages with security protocols.

- https://github.com/Funinja/my-website ↗
- Constructed login and registration features that use Google reCAPTCHA v2 API to prevent DDOS attacks
- Stores and manages a **NoSQL MongoDB** collection of users with over 10 different fields
- Implemented open standard (**RFC 7519**) JSON Web Token authentication and middleware to ensure clients can view their information with both confidentiality and integrity

COURSIFY　　PYTHON, FLASK, REACT.JS, HEROKU, MONGODB
Directed a team of undergraduates for the creation of course planning software handling 5000+ courses

- Devised a search algorithm, search tag selection, and an autocomplete searchbar feature for searching through the thousands of courses using **Python and MongoDB**
- Produced 3+ **Python** tests for CI/CD pipeline for API requests and responses of selecting courses
- Assembled the **Heroku** deployment of the application through the **Heroku** API, configuring environment variables ensuring fundamental security practices
- Parsed 5000+ course data (ie course pre-requisites, department, etc) to setup an API and **MongoDB** database that allows for specified course planning

SKILLS

Languages: JavaScript, Python, C++, C#, C, Rust, Lua, Verilog, Bash, Go, Java
Web Development: React.js, Next.js, Node.js, JavaScript, HTML/CSS, SpringBoot, JSON
Technology: Git, Docker, Unix, MongoDB, Unity, Neovim, Matlab, Visual Studio, Eclipse, Linux