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 ⬈

- http://dennislams.com/ ⬈
- 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.

- 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