

Dennis Lam

GitHub: <https://github.com/funinja>

LinkedIn: <https://ca.linkedin.com/in/dennis-lam-824871203>

My Website: dennislams.com

Email : denwt.lam@outlook.com

Mobile : 416-616-5122

504-770 Bay Street, Toronto, ON, Canada

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 (Jira)
- 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, Postman)
- 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, NGINX

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

Managed 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