

# Dennis Lam

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

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

My Website: [dennislams.com](http://dennislams.com)

Email : [denwt.lam@outlook.com](mailto: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