Danny Lu

danny.lu075@gmail.com | linkedin.com/in/danny-lu | github.com/dannylu03 | 647-470-3371

EDUCATION

University of Toronto

September 2021 - May 2025

Bachelor of Science in Computer Science

Toronto. ON

- Relevant Courses: Data Structures and Algorithms, Object Oriented Programming, Software Design
- Extracurriculars: Engineering Student Consulting Association, Google Student Developer Club, CASS Basketball

SKILLS

Languages: TypeScript/JavaScript, Python, Java, SQL, HTML/CSS

Frameworks: React, Angular, Express, Flask, Spring Boot, Jasmine, Jest, Bootstrap, ChakraUI

Libraries/Tools: Node.js, PostgreSQL, MongoDB, Maven, TensorFlow, Scikit-learn, Git, Postman, Jira/Confluence

EXPERIENCE

Software Developer

May 2022 - August 2022

Royal Bank of Canada

Toronto, ON

- Migrated the core eTransfer service to the cloud using **Java** and **Spring Boot**, improving long-term scalability and reducing operating costs by **over 50**%
- Built, extended, and optimized the eTransfer REST API endpoints which serve vital services and over 17 million users worldwide
- Led the frontend development of of the RBC eTransfer UI system using Angular and TypeScript
- Developed responsive error pages for the main sign-in page and handled unexpected errors with **RxJS**, improving user experience
- Wrote unit tests using **Jest**, providing code coverage for **100**% of the app

Front-End Developer

May 2021 - December 2021

York Region Kiva

Richmond Hill, ON

- Developed a dynamic and user friendly web app, helping to raise awareness and reach our fundraising goal of \$2000
- Led the web app's UI/UX design and development using React and Bootstrap, enabling us to showcase our cause digitally

Projects

Hack the North - MyRecipePal | React, JavaScript, Node.js, Express, PostgreSQL

- Engineered a lifestyle web app that helps users decide what to cook by generating personalized recipes
- Designed and developed a user friendly and responsive frontend using React, JavaScript, and ChakraUI
- Created a **RESTful** backend with **Node.js**, **Express**, and **PostgreSQL**, allowing users to manage their recipes
- Implemented a recipe filtration algorithm, enabling users to tailor recipes to their dietary preferences

Hack the Valley - Lookism | Python, Scikit-learn, React, TypeScript, Node.js, Express, MongoDB

- Created an app that helps inspire user's fashion style by recommending outfits based on past interests
- Developed the recommendation system using Scikit-learn and Python to suggest relevant outfits to the user
- Implemented an authentication system for the MongoDB database using JWT and Node.js to protect user data
- Designed a seamless like/dislike feature using **React** and **TypeScript** to improve outfit recommendation accuracy

WinHacks - ScanEats (Winner) | Python, Flask, TensorFlow, React

- Built a hackathon-winning app (200+ participants) that combines React, Python, Flask, and machine learning to determine the freshness of a fruit
- Trained a **TensorFlow** model over a fruits dataset to analyze the freshness of a fruit
- Implemented endpoints with Flask, enabling pictures of fruits to be sent to classification models

Pathfinding Visualizer | React, TypeScript, Bootstrap

- Developed an educational visualization app that helps users understand how pathfinding algorithms work
- Implemented pathfinding algorithms using React and TypeScript to generate different routes to a destination
- Simulated real world roads by developing the ability to add obstacles