

Lorena Buciù

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science

Toronto, ON

September 2020 – April 2024

- **Relevant Coursework:** Data Structures & Algorithms, Software Design, Programming on the Web, Introduction to Software Engineering

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, R, C

Tools/Technologies: Flask, React, Node.js, MongoDB, Express.js, PyTest, Docker, Jest, Vue.js, SQLAlchemy

Developer Tools: GitHub, Git, JetBrains, Postman, Insomnia, Datadog

EXPERIENCE

Full Stack Developer Intern

May 2022 – August 2022

Dash Hudson

Toronto, ON

- * Implemented new features in a large-scale microservice web application built with Vue.js, Flask, and MySQL that is used by the world's leading brands to view insights across all their social media marketing channels
- * Delivered new insights for Instagram Reels to the platform, the most highly requested feature by customers
- * Built and modified Flask API endpoints to improve service performance and display accurate social media metric data to clients
- * Used SQLAlchemy ORM to execute MySQL queries in Python back-end microservices

Software Developer

May 2021 – August 2021

University of Toronto

Toronto, ON

- * Assisted in the development of PythonTA, a Python package used by thousands of UofT students in introductory computer science courses to help find and fix common coding errors
- * Resolved issues with previously implemented custom error checkers and developed a test suite
- * Implemented the custom missing-space-in-doctest checker using astroid and pylint's capabilities
- * Re-designed the PythonTA error report page by making HTML/CSS changes to enhance the user experience

PROJECTS

UofT Course Scheduling Application 📄 | *Java, JUnit*

September 2021

- * Adhered to SOLID principles and clean architecture
- * Designed interactive CLI output for course information retrieved from the UofT course API
- * Developed JUnit test suites to achieve 70% code coverage

Reddit Topic Analysis 📄 | *PRAW (Reddit API Wrapper), Python, Flask, HTML/CSS*

February 2021

- * Developed a sentiment analysis script using the NLTK VADER Lexicon library and PRAW to determine the sentiment of a Reddit topic
- * Implemented a Flask API to send the processed data from the script to the client side
- * Integrated the front-end with the back-end using Flask integration capabilities

Vancouver Sea Level Rise Model 📄 | *Python, Pandas, Plotly, Dash*

November 2020

- * Processed Vancouver DSM data from a into coordinate points and computed sea level rise relative to elevation
- * Implemented the SARIMAX regression model to predict sea level rise overtime
- * Created an interactive map with Plotly to display which areas in the Vancouver region are most susceptible to flooding given a year
- * Used the Dash framework to display the visualizations as a web app

PicLinX 📄 | *MERN Stack, HTML/CSS, JavaScript*

June 2020

- * Developed a full-stack image sharing web application using the MERN stack
- * Implemented a REST API using Node.js and Express.js to perform CRUD operations and user authentication routes
- * Set up a MongoDB database to store bcrypt encrypted user information