Dylan Cheng

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Applied Science in Electrical Engineering + PEY Co-op   *Sep. 2020 – Present*
Relevant Courses: Programming Fundamentals, Computer Fundamentals, Digital Systems, Engineering Strategies and Practice I & II

EXPERIENCE

Project Manager | Github | Devpost   November 2021
NewHacks 2021   *Toronto, ON*
- Led a team of 4: created a task-based productivity app submitted to DevPost
- Developed the functionality and design of each page using React, CSS, and Bootstrap as the front-end and ReactRouter as the back-end
- Taught other team members about the syntax and the usage of JavaScript and React in web development

Coding and Robotics Instructor   July 2021 – September 2021
Wize Computing Academy   *Vancouver, BC*
- Taught classes in robotics and coding to a wide age-range of kids to promote early interest in the STEM field
- Engaged students in critical thinking and computer science concepts, which they learned to implement in basic programming languages and hardware

Revisions Coordinator   January 2021 - April 2021
Engineering Strategies & Practice II   *Toronto, ON*
- Developed a blueprint for a client's upper floor as part of a six-person team
- Drafted weekly task schedules using **Gantt chart** software

PROJECTS

Yuki Weather App | Website | Github | *OpenWeatherAPI, Python, Flask, HTML, CSS, Bootstrap*   August 2021
- Developed a full-stack weather app serving a **REST API** that generates a 10-day weather forecast
- Implemented the functionality of determining the weather of any requested location using OpenWeatherAPI
- Designed website layout using Figma and implemented responsive product pages, then deployed on Heroku

RESTful Recipe API | Github | *Flask, Python, HTML, SQLite, SQLAlchemy, pandas*   August 2021
- Created a **REST API** that fetches recipes from a database of over 230,000 recipes
- Generated a database by parsing a CSV data set using pandas and structuring a database using SQLAlchemy
- Implemented random and id-specific requests to access and modify the database using RESTful routing

Flask Blog | *Flask, Python, HTML, CSS, Bootstrap, SQLite, WTForms*   July 2021
- Completed a blog that uses a **REST API** with database interaction
- Established a **relational database** to store user info including posts, comments, user info, and salted and hashed passwords

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, JavaScript, MATLAB
Frameworks: React, Flask, Bootstrap
Developer Tools: Git, Visual Studio, PyCharm
Libraries: pandas, Selenium