

# Dylan Cheng

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## EDUCATION

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### 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

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### 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

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### 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

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**Languages:** Python, C/C++, HTML/CSS, JavaScript, MATLAB

**Frameworks:** React, Flask, Bootstrap

**Developer Tools:** Git, Visual Studio, PyCharm

**Libraries:** pandas, Selenium