

Ethan Zheng

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EDUCATION

University of Toronto

September 2019 - Present

- **Bachelor of Applied Science in Computer Engineering, 4th Year**
- Expected Graduation: April 2024

WORK EXPERIENCE

Vena Solutions, *Solutions Engineer*

May 2022 - September 2023

- Built React web pages allowing admins to track updates on their users and permissions
- Designed and implemented an algorithm that projects a budget based on prior year values and user-defined constraints
- Developed an Office 365 Add-In using JavaScript, HTML and CSS that interacts with data in Microsoft Excel sheets to help users forecast their budget
- Solved complex financial problems using a combination of Excel, Power BI, Power Automate, JavaScript and Python
- Worked with presales solution consultants to deconstruct a client/prospect business process and define the strategy for presentation
- Delivered proof of concepts that were tailored to solving the prospects' pain points influencing a total of over \$2,000,000 USD in potential ARR

SKILLS

- **Languages:** JavaScript, TypeScript, HTML, CSS, Python, C++, C#, C, SQL, Dart
- **Technologies:** React, Node.js, Flask, Unity, PostgreSQL, PyTorch, Flutter, Firebase

PROJECTS

Aether | Dart, Flutter, Firebase

March 2023 - May 2023

- Utilised Dart programming language and Flutter framework to create a basis for a dating application
- Designed and implemented UI/UX interfaces resulting in an intuitive user experience
- Developed backend communication and user authentication with Firebase services

Nav-I-Go | C++, GTK

January - April 2021

- Created a Geographical Information System that renders geographical features, buildings and streets using the OpenStreetMaps API
- Implemented a greedy algorithm with simulated annealing to solve a Travelling Salesman problem with pickups and deliveries
- Designed user interface including route generation and directions

Website - Calgary Hacks Hackathon | JavaScript, React

February 2021

- Developed a website in 24 hours that uses data from cities to display neighbourhoods which lack effective social housing
- Designed the user interface using React and Chakra UI
- Utilised data visualisation libraries Recharts and React Leaflet to display information in graphs and maps