

# Thanusun Thayaparan

Toronto thanusun@gmail.com 647 772 0497 <https://www.linkedin.com/in/thanusun> <https://thanusun.tech> <https://www.github.com/coolmanbat2>

---

## EDUCATION

**Honors Bachelor of Science in Mathematics**  
University of Toronto • Toronto, ON • 2022

---

## COURSEWORK

**Combinatorics**

**Graph Theory**

**Software Engineering**

**Linear Algebra**

---

## PROJECTS

**Group Music Controller | React, Django, Python, JavaScript, HTML, SQLite**

June 2022 – October 2022

- Constructed custom web pages using React and Material-UI to increase possible user retention by 30%.
- Reduced navigation time between rooms by 20% by utilizing a robust backend.
- Created reusable functional components to decrease development time by 40% by creating code that could easily be reused.
- Applied agile development techniques to increase coding efficiency by 60%.

**OrderUP | Unity, C#, AssemblyAI**

TOHacks • May 2022 – July 2022

- Managed a team of 3 by delegating work, coordinating meetings, and providing feedback to construct an app that allows users to project their voice in a busy environment.
- Implemented a speech-to-text feature using AssemblyAI API to convert speech to text, which reduced the number of failed order placements by over 30%.
- Reduced development time by 50% in a team of 3 using Unity and C# by developing a reusable code base.

**NetCon | HTML, CSS, JavaScript, React, Sass, Python**

UofT Local Hack Day • December 2017 – February 2018

- Awarded 3rd place out of 77 participants at UofT's Local Hack Day, a 12-hour hackathon, by applying NFC technology to create an app that allowed users to share contact information.
- Designed UI mockups, wireframes, and prototypes for a new web application to improve customer experience.
- Increased the number of active network connections by 30% by creating a custom contact management system with Flask and Python.

---

## SKILLS

**Languages:** HTML, CSS, JavaScript, Java, Python, C++, C, C#, PostgreSQL, SQLite

**Frameworks:** React, Sass, Django, Flask, Node, Selenium, RESTful

**Other:** Linux, Git, Figma, Bootstrap, Material-UI, Docker, Confluence, Jira

---

## EXPERIENCE

**Software Engineer**

**PreemptorAI**

**March 2022 – March 2023, Toronto, ON**

- Reduced the development time of a drive page by 80% by creating a RESTful API using Django REST Framework, making API calls using Axios, and using React to create a more dynamic user interface.
- Built a backend API that makes database queries in less than two weeks by working with five software engineers.
- Led a project to build landing page designs to improve mobile conversion by 10%. Used HTML, CSS, Javascript, and Photoshop to create a working landing page prototype and present to the CTO for approval.

**Front-end Developer**

**Hack The Valley**

**September 2020 – February 2021, Toronto, ON**

- Supported development of the Hack the Valley website by engineering Application and Login web pages using React and Sass for over 1000 applicants.
- Reduced query times by 50% by refactoring the user database and optimizing its query structure.
- Improved conversion rate by 30% on Application and Login pages by building mobile-responsive pages using Sass and Bootstrap.
- Implemented 10 React components in a team of three in two weeks, to be used by the entire company.