

# Simeng Yang

🏠 [simengyang.me](http://simengyang.me)

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🌐 [simeng-yang](https://simeng-yang.github.io)

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## ☰ skills

**Languages:** C/C++, Python, C#, JavaScript, HTML / CSS, Java, PHP, SQL, Scala

**Frameworks & Tools:** Unix/Linux, Node.js, React/Redux, Laravel, LAMP Stack, Unity, Git

## 🎓 education

**University of Waterloo**

Bachelor of Computer Science  
Sep 2016 - May 2021

## 📖 courses

Data Structures & Algorithms  
Object-Oriented Programming  
Digital Computation

## 🏆 awards

Most Ambitious, Game Jam F '17  
ECOO Semi-finalists, '15 & '16  
Most Outstanding Army Cadet

## 👤 interests

Swimming lengths  
Muay Thai  
Hypothetical questions  
Cryptography

## 💼 experience

### Software Engineer

Novus Health

Toronto, Ontario

Jan '18 - Apr '18

- Implemented a dashboard for health assessments using **React**, reducing turnaround for publishing campaigns from hours to minutes
- Created several new APIs and refactored deprecated APIs for customer products and internal tools
- Composed and automated data import tools in **PHP** and **SQL**, decreasing the time to update records by 30%
- Developed a text-parsing engine for reading and writing files in **Laravel**

### Software Development Intern

Genesys Laboratories

Markham, Ontario

May '17 - Aug '17

- Engineered a media control suite for audio recording and playback in **C++**
- Extended support for next-generation audio codec, boosting sound quality by up to 50%
- Implemented unit tests for media encapsulation with **Google Test** on **Linux** and **Windows**

## 🔧 projects

### Student Management System

🌐 [git.io/vp49K](https://git.io/vp49K)

- Implemented a secure database to manage 1,000+ student records using **LAMP Stack**
- Designed robust input sanitation using error-handlers and regular expressions in **PHP**

### Re-Vim'd

🌐 [git.io/vpzdj](https://git.io/vpzdj)

- Programmed a lightweight clone of the classic Vim editor in **C++**
- Replicated navigation, file open/save, editing, macros, syntax-highlighting and other core features

### 3D Dogfighter

🌐 [git.io/vp49M](https://git.io/vp49M)

- Developed a multiplayer aerial combat game in **C#** with **Unity**
- Integrated networking with match-making system for hosting 20+ concurrent users

### Fraud Detector

🌐 [git.io/vp49H](https://git.io/vp49H)

- Implemented an SVM in **Python** to identify fraudulent employees
- Tuned classification algorithm to achieve 85% accuracy on 14,000+ employee profiles