# Simeng Yang

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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
Most Outstanding Army Cadet
Faculty of Engineering Award

## interests

Swimming lengths
Muay Thai
Hypothetical questions
Cryptography

## experience

**Software Engineer** — Toronto, Ontario
Novus Healthcare International — Jan '18 - Apr '18
- Designed 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
- Implemented 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** — Markham, Ontario
Genesys Laboratories — May '17 - Aug '17
- Engineered a media control suite for server-side recording and browser playback in C++
- Extended support for next-generation audio codec, boosting call 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
- 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
- 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
- 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
- Implemented an SVM in Python to identify fraudulent employees
- Tuned classification algorithm to achieve 85% accuracy on 14,000+ employee profiles