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
Candidate for B.S, Computer Science
Sept. 2016 - May 2021

courses

Data Structures & Algorithms,
Object-Oriented Programming,
Digital Computation

awards

Most Outstanding Army Cadet
Engineering Entrance Award
CEMC Contest Distinctions

interests

Swimming regularly
Watching movies
Cryptography
Puzzles & Brainteasers

experience

Software Engineer May '17 - Aug '17
Novus Healthcare International
- Designed and created a user dashboard for health assessments using React, reducing turnaround 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 Jan '18 - Apr '18
Genesys Laboratories
- Architected 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
- 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