Yichen **Cui**

Skills

Programming Languages:

- **Proficient:** Python, JavaScript, JSX, Java, HTML, CSS, C/C++
- Competent: TypeScript, SQL, Bash, C#, PHP, PowerShell

Libraries & Frameworks:

 React, Vue.js, Bootstrap, Express.js, Socket.IO, axios, Mongoose, Passport.js, JavaFX, .NET, TensorFlow

Other Tools:

 Git, cron, Linux, nginx, Apache, MySQL, PostgreSQL, MariaDB, MongoDB, Node.js, Certbot, Agile development (Scrum), Linode, Amazon EC2, Android Studio, Gitolite, LaTeX

Work Experience

IT Project Intern — OTT PAY

June 2020 - December 2020

- Worked in a product development team
- Developed an enterprise resource planning website using C#, .NET, and SQL
- · Maintained a stock trading website using Java, Vue.js, and MariaDB
- Installed and maintained nginx web servers on Amazon EC2 instances
- · Managed Git servers on Amazon EC2 instances using Gitolite

Projects

Minesweeper Online — % minesweeper.live

Dec 2020 - Present

- Web game involving real-time data transfer and user authentication
- Front-end built with React and Bootstrap to create a responsive user interface
- Back-end built on Node.js and hosted on an nginx web server
- · Used Express.js to create an authentication API with user sessions
- Implemented WebSockets using Socket.IO for real-time game data transfer
- · Designed Mongoose schemas to organize data stored in MongoDB
- Encrypted user credentials with bcrypt and installed an SSL certificate to enhance security

osu!.db Manager — **⑦** git.io/Jf9ml

May 2020 – Jun 2020

- Lightweight tool to read and download game files, written in Python
- Decoded cached binary game data to authenticate user and request files from the game API

Super Smash Family Melee — **○** git.io/Jf9ms

Aug 2018 - May 2020

- Two-player platform fighting game for Android, written in Java
- Integrated OOP design patterns such as Factory and Observer to simplify code
- Used Android bluetooth to connect and transfer data between two devices
- Implemented multithreading to manage bluetooth connections while processing gameplay

Space Rocks — **♠** git.io/Jf9m8

Dec 2019

- Multidirectional arcade shooter game for Windows, written in Java with JavaFX
- Collaborated with four classmates using Git and Github for version control
- Used the Model View Controller (MVC) design pattern to organize code

Education

University of Toronto Mississauga Campus

Computer Science Specialist – GPA 3.44

Sep 2018 - Apr 2023