

# STEVEN YAU



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## SKILLS

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**Frameworks and Libraries:** Angular, React, Express, Node.js, Spring Boot, JPA, ASP.NET Core, Flask

**Languages:** Java, JavaScript, HTML/CSS, C, TypeScript, C#

**Tools and Technologies:** Git, MySQL, MongoDB, PostgreSQL, Heroku

## PROJECTS

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### RESTAURANT REVIEWER

- Developed a web application connected to **MySQL** to store user and business information
- Designed a responsive user interface using **Angular 11** and **Angular Material** with dynamic routing
- Created a **RESTful API** using **Spring Boot** and **Hibernate** to create, read, update, and delete information
- Implemented user authorization using **Spring Security** and **JSON Web Token** authentication

### UPKEY

- Created a **RESTful API** with **ASP.NET Core** to access product and user information stored with **MongoDB**
- Implemented **JSON Web Tokens** to secure API routes and hashed user passwords with Bcrypt
- Scraped the websites using HtmlAgilityPack and periodically updated product information with Quartz.NET
- Created a responsive front-end using **NextJS** and **Bootstrap** which uses server-side rendering

### TUNES PLUS

- Created and designed a web application using **React** and **Bootstrap** where users can view their Spotify data
- Consumes Spotify's **RESTful API** to view song information and stored user data using **PostgreSQL**
- Implemented third-party authentication by using **OAuth** to allow users to securely enter their password
- Developed an API backend with **Node.js** and **Express** to receive information and authenticate users

### MASK MONITOR

- Cooperated with a four-member team to create a face mask monitor using **Git** for QHacks 2021
- Used **Bootstrap** and **Jinja** templates to display webcam footage and the results of the mask detection
- Applied the TensorFlow library to train a mask detection model connected to OpenCV using **Flask**

## EXPERIENCE

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### FREELANCE

*Piano Teacher*

*Jul. 2017 – Jul. 2020*

- Taught students basic fundamentals of piano and built lesson plans to enhance knowledge and development
- Evaluated students on their abilities to apply and comprehend the theories of music on the piano

### MATT 25 COMMITTEE

*Technology Subcommittee Leader*

*Sept. 2018 – Jun. 2020*

- Helped lead a team of 10 members to work on digital advertising, promoting events hosted by the committee.
- Created slideshows, games, and activities for social justice fundraisers within the student body

## EDUCATION

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### University of Waterloo

*Sep. 2020 – Apr. 2025 (Expected)*

*Candidate for Bachelor of Computer Science*

- President's Scholarship of Distinction (Average of 95% or higher)
- Term Distinction, Fall 2020 & Spring 2021 (3.94 GPA)