

CHENSHUO-JUSTIN ZHU

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Technical Skills

Programming Languages: JavaScript/TypeScript, Java, REST API, JWT, C/C++, Python, C#, XML, Bash, SQL, PHP, HTML 5, CSS 3, Racket, R

Frameworks: React.js, Next.js, Tailwind CSS, Node.js, Spring Boot, Spring MVC, Spring Data, JUnit

Developer Tools: VS code, Eclipse, Spring Tool Suite 4, Postman, IntelliJ, Git, Unity, RStudio

Database/Platform/Operating Systems: MySQL, PostgreSQL, Drizzle ORM, Apache Tomcat, XAMPP, Linux

Experience

Information Systems & Technology Department, University of Waterloo

Sep 2024 – present

Presentation Technologies Support Technician

- Provided technical support for presentation technologies, troubleshooting AV equipment issues during lectures, and designed 3D printed testing tools to evaluate mic sound quality for Board & Senate meeting rooms in Needles Hall.
- Developed a web application, featuring an interactive seating plan using **SVG**, with attendee data stored in a **PostgreSQL** database, and built with **PHP** and **CSS**, incorporating a hover feature that dynamically displays corresponding names over selected seats.

Huadian Energy Development Co. Ltd

Jan 2024 – May 2024

Full Stack Developer Intern

- Designed and developed the **Supplier Management module** within a Procurement and Billing Management System.
- Developed a responsive frontend web interface using **React.js** and **JavaScript**, ensuring cross-browser compatibility.
- Designed backend services with **Java/Spring Boot**, integrated with **PostgreSQL** for database management, and utilized **JSON** and **REST API** for efficient data interchange.
- Utilized tools such as **VS Code**, **Spring Tool Suite 4**, and **Postman** for efficient coding, testing, and maintenance.

Projects

Personal Gallery Website | [GitHub](#)

Sep 2024 – present

- Utilized **Next.js** for server-side rendering and creating dynamic routes for scalable navigation.
- Integrated **Drizzle ORM** with **PostgreSQL**, setting up a robust and adaptable database schema for managing user-uploaded images and optimizing performance with turbo builds.
- Implemented custom components with **Shadcn/ui**, including a responsive gallery and a notification system using **Toaster**, along with a modern user interface, while managing authentication with **Clerk**.

Portfolio Website | [Website](#) , [GitHub](#)

Jun 2024 – Sep 2024

- Designed and developed a responsive, single-page website using **React.js** for a dynamic, fast-loading user experience, with smooth navigation and a downloadable resume feature, deployed on **Vercel** for continuous integration.
- Styled with **Tailwind CSS**, using a lime and black theme and a modern minimalist design with large-text typography.
- Integrated **Framer Motion** for advanced animations, including a rolling display of programming languages and an animated drop-down menu with a flipping effect to enhance interactivity.

Sorcery - Card Game

May 2024 – Aug 2024

- Developed a collectible card game in a team of three, using **C++**, implementing a turn-based game mechanics.
- Implemented Minion and Ritual components, using the **Factory design pattern** to streamline the creation of different card types and applying inheritance to efficiently implement activated and triggered abilities.
- Collaborated with team members to design and integrate player actions and game logic, ensuring seamless gameplay.

Interactive Museum Guide Website | [Website](#) , [GitHub](#)

Sep 2022 – Jun 2023

- Constructed an interactive website with a global map for exploring world-renowned museums, featuring a user-friendly interface with **HTML**, **CSS**, and **JavaScript**, including tools like a magnifying feature for artifacts.

Extracurricular

Catalyst Summer Program, University of Waterloo

Jun 2022- Jul 2022

Environmental Project Developer, Presenter

- Collaboratively developed "The Bio-catch", a biodegradable LED fishing net designed to reduce bycatch.
- Awarded the **2nd place** in the Catalyst Pitch Competition for presenting innovative solutions to sustainability experts.

Education

University of Waterloo

Sep. 2023 – Present

Candidate: Bachelor of Computer Science

Waterloo, ON

- Awarded President's Scholarship of Distinction