

JERRY SHUM

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Education

Ontario Tech University

Sep. 2021 – May 2025

Bachelor of Engineering in Software Engineering

Oshawa, ON

- Relevant Coursework: Data Structures, Algorithms, Cloud Computing, Software Design, Database Design, Software Testing, Operating Systems, Computer Networks

Technical Skills

Programming Languages: HTML/CSS, Python, JavaScript, TypeScript, SQL

Frameworks & Libraries: React, Next.js, Node.js, TailwindCSS

Tools & Platforms: Git, GitHub, VS Code, Docker

Soft Skills: Agile Methodologies, Team Collaboration, Problem Solving

Experience

Celestica, Inc

May 2024 – Present

IT Application Developer

Hybrid, Toronto, ON

- Developed and maintained **ServiceNow-based solutions**, leveraging **Flow Designer and Workflow Editor** to automate business processes, reducing manual effort by 30% and improving operational efficiency.
- Integrated **REST and SOAP APIs** to connect ServiceNow with third-party systems, enabling seamless data exchange and improving cross-platform functionality by 25%.
- Designed and implemented **custom scripts** (JavaScript) to enhance ServiceNow functionality, including UI Policies, Client Scripts, and Business Rules, resulting in sizable improvements in user experience.
- Collaborated with global teams to troubleshoot and resolve system issues, reducing downtime by 15% and ensuring compliance with **ITIL processes** and corporate standards.
- Worked within an **agile framework**, participating in sprint planning, daily stand-ups, and sprint reviews to deliver high-quality solutions on time and within scope.
- Ensured all development work adhered to **industry standards** for security, quality, and compliance, contributing to the scalability and reliability of business solutions.

Magnify Access

Jan 2024 – May 2024

Frontend Developer

Remote, Toronto, ON

- Designed and developed an **accessible, user-friendly interface** for the company website, ensuring compliance with **WCAG 2.1 standards** and improving accessibility for users with disabilities.
- Implemented **responsive web design**, developed **responsive layouts**, and adaptable UI elements to enhance usability for users of all abilities, ensuring a seamless experience across devices.
- Collaborated with backend and design teams to deliver a **high-performance, visually appealing** site that aligns with Magnify Access's mission to make the digital world more accessible.
- Optimized website usability, ensuring that the site met **accessibility standards** and improved digital access for all users, particularly those with disabilities.
- Implemented SEO best practices, such as meta tags and semantic HTML, increasing organic traffic to the website by 20%.

Projects

Blabber - Full-Stack Blog Platform | *NEXT.JS, shadcn/UI, Prisma, TypeScript, TailwindCSS* January 2025

- Developed a **full-stack blog platform** using **NEXT.js 15**, enabling users to create, read, update, and delete blog posts "blurbs" with a modern and responsive UI.
- Utilized **shadcn/UI** to build a highly **customizable and accessible** user interface, ensuring a seamless and visually appealing experience for users.
- Integrated **Prisma** as an **ORM** to manage database operations, enabling efficient **CRUD functionality** and ensuring type safety with **TypeScript**.
- Implemented **authentication and authorization** using **auth.js**, ensuring secure user access and role-based permissions for blog management.

Discord TTS Bot - Personal Project | *Python, Discord API, ElevenLabs, gTTS, dotenv* November 2024

- Developed a Discord bot that reads messages aloud from a specified text channel and plays them in a voice channel, enhancing user interaction with text-to-speech (TTS) functionality.
- Utilized the **Discord API** to manage bot events, such as connecting to voice channels and processing text messages. Integrated **ElevenLabs API** and **gTTS** for generating realistic voice responses based on incoming messages.
- Implemented a role-based access system, allowing only authorized users to trigger the bot's TTS functionality, ensuring controlled usage within the server.
- The bot connects to the voice channel, streams TTS audio, and handles multiple simultaneous messages, providing a seamless and interactive experience for users.

Employee Task Dashboard - Personal Project | *JavaScript, React, Tailwind CSS, Supabase* November 2024

- Developed a **task management application** to display tasks assigned to employees, with functionality for managers to select an employee from a dropdown to view their tasks.
- Used **React** to build reusable components for the UI, incorporating dynamic task displays based on the selected employee.
- Employed **Tailwind CSS** for efficient styling, allowing for rapid development of responsive layouts and modern UI elements.
- Implemented **React Query** for seamless data fetching and caching, providing an efficient state management solution for handling employee task data.
- Utilized **React Hook Form** to manage form input states and validation for the employee selection form, ensuring smooth user interactions with minimal re-renders.
- Integrated **react-hot-toast** for displaying customizable toast notifications, providing feedback on user actions like task updates.
- The application leverages **Supabase** for back-end storage and real-time data synchronization.

Achievements/Awards

OntarioTech Internal Engineering Competition (IEC)

Achieved 1st Place in the Programming Category

November 2024

Oshawa, ON

NASA Space Apps Challenge - Hackathon

Achieved 1st Place overall

October 2024

Oshawa, ON

Ontario Engineering Competition (OEC)

Achieved Placement of Top 5 in the Consulting Category

January 2024

Kingston, ON

OntarioTech Internal Engineering Competition (IEC)

Achieved 1st Place in the Consulting Category & Overall Placement of 2nd Place

November 2023

Oshawa, ON