ELBERT CHAO

CANADIAN CITIZEN
elbert.chao443@gmail.com | (416) 719-8849 | LinkedIn | GitHub | Portfolio

EDUCATION

Bachelor of Engineering Science, Software Engineering London, ON, Canada
University of Western Ontario *Sept 2021 – May 2025*
- CGPA: 3.7/4.0; Deans Honor List: 2021-2024
- Coursework: Software Testing and Maintenance, Web Technologies, Introduction to Machine Learning, Artificial Intelligence, Data Structure & Algorithms, Database Management, Software Construction, Operating Systems

PROJECTS

Cheer Program 🌐 | *MongoDB, ExpressJS, ReactJS, NodeJS, Material UI, Socket.io, GCP* *Jan 2024 – May 2024*
- Designed simplistic navigation & chatroom system leveraging UI, ReactJS, and Socket.io to improve user experience
- Collaborated with a team of 5 using Jira and Confluence to maximize project workflows
- Delivered the web application on GCP using Cloud Run to enhance scalability and resource management

Chatroom Whisperers 🎧 | *C++, Python, PyQt, AWS* *Jan 2024 – May 2024*
- Coded a real-time chatroom application, using C++ and Python, to provide a platform for users to engage in conversations, resulting in a 30% increase in user engagement and improving user experience
- Managed a server hosted on AWS service, leading to a 35% improvement in connection times

Pygame Pirates 🎧 | **Video Demo** ▶ | *Python, Pygame* *Jan 2023 – May 2023*
- Coded 10+ Python scripts with Pygame, enhancing gameplay depth and player interaction
- Formulated an intuitive player shop interface, enabling users to pause the game and upgrade character abilities
- Created fluid animations, 3 different scenic maps and monsters improving visual dynamics and reducing frame delays

COMPETITIVE ACHIEVEMENTS

Western Cyber Society (WCS) 🎖 | 1st Place Entertainment Category Winner London, ON, Canada
Backend Developer, SIP Spotify Playlist Generator Team *Jan 2024 – Present*
- Developed a model using Python, Spotify's API, and OpenAI API to create personalized playlists for users, increasing listening retention
- Facilitated weekly meetings with a team of 6 to strategize the successive phases of the software development
- Presented our project at the Toronto Tech Expo, competing with 15+ innovative software integration teams

HackWestern9 🏆 | Top 10 Organizer's Choice Award London, ON, Canada
Backend API Developer *Nov 2022*
- Engineered the backend for a Spotify playlist generator, leveraging Cohere AI, Python, and Spotify's API
- Enhanced the entire front-end interface with Flask, resulting in a user-friendly application

WORK EXPERIENCE

PepsiCo – Frito-Lay Toronto, ON, Canada
Warehouse Technician *May 2023 – Aug 2023*
- Executed warehouse operations such as picking and packing resulting in a 15% increase in order fulfillment rate
- Orchestrated coordination among warehouse personnel, contributing to a 10% reduction in inventory processing time
- Regularly undertook additional responsibilities beyond the required duties, alleviating the company's overall workload

Unity Health Toronto – Providence Healthcare Toronto, ON, Canada
Palliative Care Assistant *Oct 2019-Jan 2020*
- Exhibited excellent communication and interpersonal skills by fostering collaboration with senior residents
- Provided personal care to senior residents with compassion and respect, aiding them in their daily activities
- Partnered with healthcare professionals, including nurses and social workers ensuring optimal resident care

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, SQL, C/C++
Databases: MongoDB, MySQL
Web Technologies: ReactJS, NodeJS, ExpressJS
Cloud Developer Tools: GCP, AWS
Technologies/Frameworks: Docker, GitHub Actions