

# Elbert Chao

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## EDUCATION

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### WESTERN UNIVERSITY - Expected graduation: April 2025

#### Bachelor of Engineering Science - Software Engineering

Sept 2021 - Present

- First & Second Year Academics: Dean's Honour List (*CGPA: 3.7/4.0*)
- Relevant Courses: Software Design (*Jira, Confluence, GCP*), Web Technology (*Fullstack: ReactJS, Express, Node.js, MongoDB*), Software Requirements & Analysis (*Python*), Operating Systems(*C++*)

## PROJECTS

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### CHEER PROJECT - Full Stack Web App Hosted on GCP [Link]

#### Software Engineering Design

Jan 2024 - Apr 2023

- Designed a simplistic navigation and chatroom system leveraging **Material UI, React JS, and Socket.io** to improve user experience, resulting in a 10% reduction in average page load times.
- Collaborated with a team of 5 using **Jira** and **Confluence** to maximize project workflows
- Delivered the web application on **Google Cloud Platform** to enhance scalability and resource management

### WESTERN CYBER SOCIETY – SIP Spotify Playlist Generator Team [Link]

#### Backend Developer

Oct 2023 - Mar 2023

- Developed a model using **Python, Spotify's API, and OpenAI API** alongside over 100,000+ data samples to create personally enhanced playlists for users and increasing listening retention by 30%.
- Facilitated weekly meetings with a team of 6 to strategize the successive phases of the developmental trajectory.
- Placed **1st** at **Toronto Tech Expo (TTE)** in the entertainment category competing against 15+ SIP teams.

### WEBTECH PROJECT - Superhero Quest Hub [Link]

#### Full Stack Web Technology

Nov 2023 - Dec 2023

- Coded an interactive superhero-themed webpage utilizing the **MERN** stack, employing **React JS** for content rendering; achieved a 35% boost in user retention and a 20% increase in page load speed.
- Integrated user authentication using **JSON web tokens**, ensuring secure data access and personalized interactions
- Deployed the web app on **AWS** cloud using **Amazon Elastic Compute Cloud (EC2)**, ensuring scalability, reliability, and efficient resource management.

### IFINANCE DATABASE PROJECT - Financing Model

#### Software Design

Feb 2023 - Apr 2023

- Compiled a software design process using a project workbook and use case modeling to achieve a 15% reduction in software development time.
- Coded an intuitive **JavaFX**-based prototype using **MVC** architecture along with **SQL** queries to enhance data retrieval speed by 10%.

## WORK EXPERIENCES

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### PEPSICO - FritoLay

#### Warehouse Technician

May 2023 - Aug 2023

- Executed warehouse operations such as picking, packing, and shipping resulting in a 15% increase in order fulfillment rate.
- Maintained a stellar safety record by strictly following warehouse safety protocol, leading to 0 accidents over 4 months.
- Orchestrated the coordination among warehouse personnel and management, contributing to a 10% reduction in turnaround time for inventory processing

## SKILLS

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**Languages, Frameworks & Tools:** Word, PowerPoint, Outlook, JavaScript, SQL, HTML, CSS, MongoDB, React JS, Express JS, Jira, Confluence, Python, GCP

**Extracurriculars:** Western Cyber Society Club (Developer)