

CHRISTOPHER OOI EN SHEN

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Education

Wilfrid Laurier University

Bachelor of Science in Computer Science

- CGPA of 3.7

Sep. 2023 – May. 2027

Waterloo, Ontario

Experience

Sensoft Technologies

Software Engineer Intern

May. 2024 – Sep. 2024

Penang, Malaysia

- Developed a **scalable fan simulator** for **15,000 devices** using **Modbus Protocol** and **Python multithreading**, integrated with a **React-based dashboard** to allow **factories** to remotely monitor and control fan speeds with real-time adjustments, error handling, and data visualization, significantly improving operational efficiency in industrial environments.
- Built an **energy consumption prediction model** using **Facebook's Prophet** and integrated **OpenAI API** to automate report generation, enabling a **hotel** to monitor and optimize energy usage with **over 85% accuracy**, thus improving resource efficiency and reporting by above **50%**.
- Build a **real-time people detection system** using **YOLO** and **DeepFace** with under 0.1-second detection speed and integrated with age/gender analysis, enabling a **rock-climbing company** to streamline check-ins and enhance their video surveillance systems by **40%**.

MentorTrader

Software Engineer

Aug. 2024 – Present

Remote

- Currently building a **startup** that connects trader with verified mentors to ensure credibility and transparency in the financial trading space.
- Implementing **full-stack** technologies including React.js, Next.js, and Tailwind CSS for the **frontend**; Next.js for APIs, PostgreSQL for **database management**, Mailgun for **email integration**, Stripe for **payments**, and Vercel for **hosting**. Google Cloud is used for additional cloud services.
- Actively **engaging** with influencers, traders, and users to market the platform and generate early interest through strategic social media engagement and partnerships.

Personal Projects

URL Shortener Website | *Ruby, HTML/CSS, JavaScript, PostgreSQL*

Sep. 2024

- Developed a **full-stack URL shortening service** using **Ruby on Rails 8.0** and **PostgreSQL**, featuring a responsive **Tailwind CSS** interface and containerized deployment with Docker.
- Engineered comprehensive analytics functionality including geolocation tracking, visit statistics, and referrer monitoring, providing users with detailed insights into their shortened URL performance.
- Implemented robust security measures including **Cloudflare Turnstile** for bot protection, rate limiting with **Rack::Attack**, and **Redis-backed caching**, handling high-traffic scenarios.

Cryptocurrency Prediction Model | *Python, TensorFlow, Keras*

Jan. 2023

- Developed an advanced **LSTM** (Long Short-Term Memory) **neural network model** to analyze and **forecast cryptocurrency market trends**.
- The model implements refined algorithms to interpret complex market data, enabling accurate predictions of cryptocurrency price movements.
- Executed advanced **data manipulation techniques** using **Pandas** to craft a comprehensive dataset from CSV files. Optimized the LSTM network's architecture, leveraging **TensorFlow** and **Keras** for efficient model training.

Chess Game | *Python, Pygame*

Dec. 2022

- Developed a **fully functional chess game** application employing Python and Pygame, featuring a robust graphical user interface.
- Focused on creating a logical and scalable code structure, highlighting skills in GUI design, algorithm development, and **object – oriented programming**.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, VBA, Ruby

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Vercel, PowerShell

Technologies/Frameworks/Libraries: TensorFlow, Linux, Next.js, GitHub, React, TailwindCSS, Framer Motion, Flask, Django, json, Pandas