# CHRISTOPHER OOI EN SHEN

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## Education

**Wilfrid Laurier University**                                              Sep. 2023 – May. 2026
*Bachelor of Science in Computer Science*                                    *Waterloo, Ontario*
- CGPA of 3.7

## Experience

**Sensoft Technologies**                                                     May. 2024 – Sep. 2024
*Software Engineer Intern*                                                    *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**                                                             Aug. 2024 – Present
*Founder / / Software Engineer*                                              *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, MongoDB 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

**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.

**Python Conversational AI Bot** | *Python, TensorFlow, NLTK, JSON*          Mar. 2023
- Engineered a sophisticated interactive chatbot application with a graphical user interface, capable of engaging in natural language conversations.
- Interprets and responds to user queries across multiple domains, including casual interactions and specific information requests.
- Developed in Python with Tensorflow and NLTK for language processing, and Tkinter for the GUI.

**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
**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