Ryan Huang

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EDUCATION

Western University   London, ON
Bachelor of Software Engineering   *May 2026*
- GPA: 3.9/4.0

EXPERIENCE

Xinosys Co. Ltd | *Software Engineering Intern*   *Remote | May 2024 – Sept 2024*
- Developed a **Translation AI** in **Python** supporting 5+ languages, leveraging **Amazon's Haiku AI** for website multi-language functionality, and ensured translation accuracy for 2,000+ terms by cross-referencing Google Translate and ChatGPT
- Designed a **web crawler** in **Python** using **Scrapy** to collect Amazon product data for AI training, achieving a scraping rate of 5,300 results/hour with scalability to over **10,000 results/hour** using proxies
- Improved company **Linux server** processing power by 30% by dissembling and combining existing hardware and installing software optimizations

Xinosys Co. Ltd | *Full Stack Engineering Intern*   *Remote | May 2023 – Sept 2023*
- Developed the **GraphQL API** for the company's B2B platform, focusing on efficient resolver management, query customization, and seamless end-user data access
- Developed a front-end user interface using **React.js**, with backend integration powered by **Spring Boot**, and utilized **Docker Desktop** to set up a local testing environment
- Performed **QA testing** on **Android** devices, documenting bugs, performance issues, and UI inconsistencies, and communicated findings through detailed **Slack** reports

Genesis Labs | *Full Stack Engineering Intern*   *Ottawa, ON | Nov 2021 – Feb 2022*
- Established secure user authentication protocols using **MySQL** and **implemented Role Based Access Control (RBAC)**, ensuring data confidentiality and appropriate resource allocation.
- Designed a secure student voting protocol using HTTPS for **encrypted data transfer** and **WebSockets** for real-time voting alerts, ensuring integrity and fraud prevention
- Created a responsive data visualization dashboard using **React.js** for data analytics

PROJECTS

Travel Planner | *React.js, Node, PostgreSQL, Firebase*
- Developed a travel planning application enabling users to explore global destinations, create and share personalized travel lists, and interact with others through ratings and comments
- Integrated **RESTful API**s to interact with a **PostgreSQL** backend, enabling efficient data storage and retrieval for user accounts, travel lists, and ratings
- Implemented RBAC, with secure authentication and signups managed via **Firebase**

Looney Tuney | *Python*
- Created a **Music Composition AI** using **Python** and **Neural Networks** that will generate a classical masterpiece based on user parameter inputs
- Trained and tested an **LSTM (Long Short-Term Memory)** model using the MAESTRO dataset with promising results

QQ Disaster Tracker | *PHP, MySQL, HTML/CSS*
- Developed a Disaster Tracker application for Western Engineering Competition 2024 in 7 hours, leveraging **PHP**, **MySQL**, and **MAMP** for local deployment, featuring real-time disaster data filtering by type, severity, and location
- Implemented custom search functionalities, allowing users to filter disasters by type, severity, or geographical location for targeted and relevant insights

SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS, PHP, SQL, C++, C
Developer Tools: Docker, Postman, Git, GitLab, AWS AI, Unity, Jira, Oracle VM, React.js, GraphQL, Gradle
Languages: Mandarin, English