

Ruiquan (Richard) Su

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EDUCATION

University of Waterloo

Computer Engineering, Hon. Coop, President's Scholarship with Distinction, GPA: 4.0/4.0

Waterloo, ON

Sept. 2024 - Present

EXPERIENCE

Control Software Developer

January 2025 - April 2025

SIoux Technologies (Asia), Jiangsu Industrial Technology Research Institute (JITRI)

Suzhou, China

- Cut on-site deployment time **from 98 hours to 20 hours** by designing and developing concurrent **streamlined installation and upgrade processes**, reducing manual overhead via GitLab **CICD pipelines** and **scripting**.
- Refactored existing services into **organized packages** and developed **Blazor-based API controllers** to automate installations, enabling **direct customer access**.
- Organized and led **company-wide Git training sessions** to enhance version control proficiency across teams.

Software Developer Intern

September 2025 - December 2025

Lynkr Inc.

Toronto, ON

- **Spearheaded**, along with one another developer, the development of the **core company product**, Lynkr Workbench, from **scratch to beta**, which earned over **100,000 CAD** in revenue for the company.
- Used **FastAPI** and **Next.js** to develop a **containerized solution in Docker** that contains **two AI agent streams** that handle the creation & execution of **AI agents**
- Used **secure routing** in the gateway to allow users to directly and indirectly **customize** their agents.
- Worked with **Google Secret Manager** to securely handle user secrets.

PROJECT SELECTION

KnowledgeHunt | Python, PyPDF, SciKit-learn, Tkinter, spaCy

January 2025 - May 2025

- Developed a **Python-based NLP algorithm** that **selects relevant PDF pages** based on keywords inputted by users, specifically **by vectorizing the PDFs and keywords**, then computing their **cosine similarity**.
- Designed a UI with **Tkinter** that allows users to **select the question bank** to source the PDFs from, and the **topics** to focus on, thus creating an **automatic question bank build tool** for any educational system.
- Created a default question bank for the **International Baccalaureate system** and donated the resulting curated software to **Vision Academy Ltd.**, a tutoring organization with **over 10,000 students**.

QuickSilver | Python, Socket, IPAddress, re, pybluez, Tkinter, PyInstaller

April 2025 - May 2025

- Built a **broadcaster-receiver pair** that broadcasts information to **every receiving machine in the LAN**
- Developed a file **sending and receiving system** via a **TCP or RFCOMM connection** that can validate and send files to **any computer** on the LAN or with Bluetooth, and a validation mechanism when receiving files.
- Maintained a **CLI implementation** of the application, while also designing a **user-friendly UI** using **Tkinter**, integrating **all CLI functions** into it, and packaged the program into a **standalone EXE**.
- **Automated** the build process on release using **CICD pipelines** via **GitHub Actions**.

WatIsLife | Python, JavaScript, React, Flask, GSM

December 2024 - January 2025

- Developed a **web API** that **records** the user's speech and uses **Google Speech Module** to count how many times a certain phrase was said and **stores** the count in a **database**.
- Built a simple **React front-end** that displays a **leaderboard** for all users.
- Used **Discord API** to build a Discord bot with commands that maintain the same functionalities.

TECHNICAL SKILLS

Languages: Python, C/C++, C#, SQL (Postgres, MySQL), JavaScript, HTML/CSS, Powershell, YAML, Batch

Communication: English, Mandarin, French

Developer Tools: Git, Docker, VS Code, Visual Studio (msbuild), Jupyter, Anaconda, Node.js, React, NSIS, NuGet

Libraries: pandas, NumPy, Matplotlib, Cartopy, Tkinter, PyKriging, Flask, Tensorflow, sklearn, Socket, spacy, PyPDF