

Ruei Kuan Wei

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EDUCATION

The University of British Columbia

Expected: May 2028

Bachelor of Science, Major in Computer Science with Option in AI | CGPA: 3.95 | CS GPA: 4.0

Vancouver, BC

TECHNICAL EXPERIENCE

AI Software Developer

Nov. 2025 – May 2026

UBC Data Science Club

Vancouver, BC

- Contributed to building an AI-empowered Basketball Shooting coach using Python, YOLOv8 and Scikit-learn
- Formulated scoring metrics and continuous analysis pipelines for shot-angle optimization, translating raw trajectory data into actionable performance insights

Software Developer

Sep. 2025 – Present

Connect Me Free Tutoring & Mentoring

Remote

- Maintained and enhanced tutor portal using Node.js, TypeScript, and React
- Built and deployed internal tools to monitor and optimize email workflows, ensuring reliable student-tutor scheduling and providing comprehensive audit logs for all sent communications

PROJECTS

UBC Insight | TypeScript, Node.js, Postman

Jan. – May 2026

- Built full-stack query engine for course and room data using custom query language
- Implemented data upload processing to efficiently handle over 5,000 files
- Designed RESTful APIs and implemented dashboard with graphical visualizations
- Wrote unit and integration tests for backend and data validation using Mocha and Chai

StockSense | Python, ChromaDB, Ollama, Finnhub API, Llama-index

May – Aug. 2025

- Built RAG-empowered discord bot to provide information regarding recent stock market information and trends
- Integrated ChromaDB and Llama-index with locally hosted Ollama LLMs to build a high-performance retrieval system, ensuring effective metadata indexing through optimized local hardware usage
- Engineered TASK-based prompts to ensure focused LLM answers, increasing query accuracy by 20%

Eggcellent Pomodoro | Java, JSON, Swing (Java), JUnit

Jan. – May 2025

- Implemented and tested a study timer based on the Pomodoro technique using Java and JUnit
- Designed wire-frame mock-ups and flowcharts to ensure a clear and procedural implementation of the GUI
- Leveraged Object-Oriented Programming (OOP) principles and implemented end-to-end data persistence via JSON to ensure state consistency across different study/break sessions

EXTRACURRICULARS

Math Tutor

Sep. 2025 – Present

Connect Me Free Tutoring & Mentoring

Remote

- Applied robust teaching strategies to quickly identify knowledge gaps and optimize learning efficiency
- Adopted a growth mindset by staying receptive student to feedback and iteratively refining explanations

Hackathon Developer — CripIt

Feb. 2026

Hack the Coast

Vancouver, BC

- Explored the benefits of AI-driven development by integrating Claude Code and Cursor with C++ to accelerate prototyping and automate repetitive boilerplate
- Maintained a high level of performance under extreme time pressure, using constant communication to troubleshoot bugs and ensure a functional submission

TECHNICAL SKILLS

Languages & Technologies: Java, Python, C/C++, JavaScript, TypeScript, R, HTML/CSS

Frameworks: React, Node.js, Flask, FastAPI, Java Swing, JUnit, Mocha, Chai

Libraries: Matplotlib, NumPy, pandas, scikit-learn

Developer Tools: Git, IntelliJ, PyCharm, Visual Studio, VS Code, Postman

Databases: ChromaDB, MongoDB, SQL