Ryan Wu

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SUMMARY

Detail-oriented computer science student with a strong mathematics background. Experienced in full-stack development, system engineering, and writing scalable, unit-tested code. Interested in developing machine learning backend infrastructure. Adept at problem-solving and analyzing complex systems.

EXPERIENCE

Brellix LLC.   Denver, CO
Co-founder and Full Stack Development Co-Lead   March 2024 – Current
- Developed and tested a PCI compliant restaurant POS app using Java, Kotlin, and C#.
- Designed and created RESTful APIs to connect front-end C# applications to a cloud database
- Performed data migration tasks, on-site installations for new clients.

Cornell University   Ithaca, NY
Machine Learning Teaching Assistant   August 2024 – December 2024
- Host office hours to address student questions, supplement student's understanding of foundational machine learning concepts, and debug student's implementation of machine learning algorithms.
- Assist in developing and grading assignments and machine learning projects.

CK Procleaners Inc.   Long Island City, NY
Software Engineering Intern   June 2021 – February 2022
- Improve workplace efficiency by assisting in the design and deployment of an integrated database system to track and verify client orders, decreasing the number of lost garments by 10%.
- Produced and presented weekly reports analyzing client data trends using MySQL and Visual Basic.

PERSONAL PROJECTS

Appiphany   January 2024 – May 2024
- Ad-hoc information retrieval system that leverages MySQL, Python, and JS to provide users relevant app recommendations from the Google Play store, given user descriptions
- Parses Google Play API requests, and uses TF-IDF and Rocchio improvement algorithm metrics to produce quick and accurate results

StockHome   October 2023 – December 2023
- A stock portfolio application using OCaml and Python with three other students that web-scrapes realtime stock information and presents relevant financial information.
- Personally responsible for gathering, processing, and displaying real-time stock data.

AWARDS

American Invitational Math Examination (AIME) Qualifier   2019, 2020, 2021, 2022

EDUCATION

Cornell University, School of Engineering   New York, NY — May 2026
Bachelor of Science – Computer Science, Math Minor   GPA: 3.988
Extracurriculars: Cornell Blockchain

SKILLS

System Optimization, Machine Learning, **Reinforcement Learning**, Numerical Analysis, **Mathematics**, Datastructures, Scalable Systems, **C++**, Python, PyTorch, Java, SQL, React, Blockchain, Monte Carlo Simulation, Statistics, Web3, Crypto, Decision-making, Unit Testing