

Ivan Lin

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Seeking Software Engineering Internship/Co-op, available Spring/Summer 2025

EDUCATION

Rochester Institute of Technology

July 2021 - May 2026

Bachelor of Science in Software Engineering, Minor in Computer Science

Rochester, NY

- Courses: Software Architecture, Operating Systems, AI/ML, Algorithms, Databases, Embedded Systems, UI/UX

EXPERIENCE

Georgia Tech Research Institute

May 2024 – Aug 2024

Software Engineer Intern

Orlando, FL

- Developed a .NET WinForms app to enable easy viewing and modification of KML data for stakeholders
- Refined flight maneuvers on VECTS UH-60M platform by leveraging C++ for simulation logic and WPF for UI
- Deployed 10+ threat table parsers with bit manipulation to assist the DOD in mission-critical threat assessment
- Streamlined compliance and reduced deliverable time by 15% through automating distribution report generation

Integral Ad Science

June 2023 – Aug 2023

Data Engineer Intern

New York, NY

- Developed a containerized anomaly detection app to analyze 100+ petabytes of data and report defects to DevOps
- Enhanced AWS EC2 Airflow instances to enable systematic monitoring and alerting of trends and anomalies
- Integrated Grafana for data visualization, providing stakeholders with real-time monitoring and utilization alerts
- Improved BigQuery load times by 30% using BI Engine for in-memory caching and optimizing data ingestion

ESL Global Cybersecurity Institute - RIT

Aug 2024 – Present

Machine Learning Research Assistant

Rochester, NY

- Research methods for optimizing machine unlearning gradient-boosted neural network models
- Examined techniques for improving model performance based on UC Irvine datasets, achieving 83.7% accuracy

PROJECTS

YCombinatorix | *Python, Pandas, Kafka, Spark, Docker, Plotly*

- Deployed a containerized data pipeline to analyze Y Combinator for success metrics using Kafka streams
- Implemented a unified global infrastructure across 3+ Kafka clusters using Spark for query aggregation

Maestro | *Embedded C, GPIO, USART, ADC, DAC, Interrupts*

- Created a MIDI player with embedded C on an ARM Cortex-M4 development board with physical controllers
- Leveraged GPIO, USART, ADC/DAC, and interrupts for LED controls and audio output

BlackPebble | *Python, React, FastAPI, Scikit-learn, Pandas, Matplotlib*

- Developed a full-stack web scraping application that giving users comparative housing data for a given location
- Leveraged React frontend with Python FastAPI backend for RESTful APIs and Matplotlib data visualization
- Integrated data clustering with Scikit-learn and Pandas for data analysis and statistical insights

FitTrack | *Angular, Java, Maven, Spring Boot, JUnit*

- Collaborated in a 4-member team to develop a full-stack gym equipment app using Agile methodology
- Implemented Angular frontend and Spring Boot MVC architecture with Java for RESTful APIs backend
- Improved robustness by integrating JUnit tests, achieving 97% coverage via SonarQube JaCoCo analysis

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, JavaScript, TypeScript, SQL, MATLAB, Julia, Bash

Dev: React, Angular, .NET, MongoDB, PostgreSQL, MySQL, Snowflake, Spring Boot, Flask, FastAPI

DevOps: Docker, PyTest, Maven, GitHub Actions, Grafana, GitLab, Jenkins, Airflow

Infrastructure: AWS, GCP, Unix/Linux, Jira, Node.js, JUnit, Jest, Selenium, Kafka, Spark