

# RICHARD SAWH

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## Education

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**Rochester Institute of Technology**, Rochester, NY

B.S. in Software Engineering with an Immersion in Economics

Graduated May 2025

## Experience

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**Complete Discovery Source**, Software Engineer Intern, NY

June 2024 - August 2024

- Designed and implemented a PostgreSQL database to securely store and manage sensitive client data.
- Improved data reliability and consistency across services, ensuring high availability.
- Optimized queries and indexes, reducing query execution time by 40%.

**Jasaim**, Software Engineer Intern, NY

January 2024 – April 2024

- Developed a blockchain-based verification tool using Solidity for credential authentication.
- Integrated Binance APIs to tokenize academic credentials and ensure tamper-proof access.
- Contributed to business logic and profitability modeling, improving strategy effectiveness by 15%.

**RIT Research (CISA)**, Software Engineering Intern, NY

May 2023 – August 2023

- Engineered a Python and Java-based pipeline to scrape, classify, and rank >1000 security vulnerabilities using AI classifiers, then added the data to an Angular dashboard.
- Applied NLP models to assign severity scores and recommend mitigations.
- Reduced processing time by ~30%, improving throughput and resource efficiency.

## Projects

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**Honeywell - Confidential Project**

September 2024 – May 2025

- Replaced legacy tooling with a scalable Angular app using Tailwind CSS, Prisma, and Foblex for enterprise-grade integration.
- Designed reusable, modular UI components for scalability and performance tuning.
- Collaborated with designers using Figma and UML to prototype and communicate front-end architecture.

**Fitness Tracking Mobile Application**

December 2024 – Current

- Built a fitness tracking app in React Native with Supabase to monitor workouts, goals, and nutrition.
- Added barcode scanning, real-time calorie tracking, and smartwatch sync via Bluetooth integration.
- Integrated GPT chatbot for advice and implemented push notifications and AdMob monetization.

**Face/Object Recognition Utility**

February 2025 – March 2025

- Developed a Flask web app for real-time face/object detection using YOLOv3 and DeepFace.
- Built an interactive React front-end with drag-and-drop image uploads and visualized output.

**MIT Think Competition (Semi-Finalist)**

January 2019 – November 2019

- Designed a prototype of glasses using a Raspberry Pi, cameras, and sensors to perform Optical Character Recognition.
- Converted identified text into audio via text-to-speech for accessibility.
- Achieved Semi-Finalist status (Top 12) in the MIT Think competition.

## Skills

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- Front-End Technologies:** React, Angular, HTML, CSS, JavaScript, Tailwind CSS, Flutter, Bootstrap
- Programming Languages:** Python, Java, C++, Go, Dart, Solidity, SQL (PostgreSQL, MySQL), NoSQL
- Back-End & DevOps:** Flask, Firebase, Supabase, Prisma, Git, Terraform, Apache Tomcat, Postman
- Cloud & Infrastructure:** Google Cloud Platform (GCP), AWS
- Tools & APIs:** REST APIs, Figma, Google Maps SDK, GPT APIs, Binance API, AdMob