RICHARD SAWH

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Education

Stevens Institute of Technology, Hoboken, NJ
M.S. in Computer Science with a specialization in AI and ML — September 2025 - Current

Rochester Institute of Technology, Rochester, NY
B.S. in Software Engineering with an Immersion in Economics — Graduated May 2025

Experience

Complete Discovery Source, Software Engineer Intern, NY — June 2024 - August 2024
- Developed high-quality internal tools used by infrastructure and finance teams to automate manual workflows.
- Contributed to all stages of the SDLC, including requirements gathering, implementation, UAT support, and production deployment.
- Delivered real-time incident resolution tooling with strong emphasis on system resilience, performance, and compliance.

Jasaim, Software Engineer, NY — January 2024 – April 2024
- Designed and implemented backend services and frontend dashboards using TypeScript, SQL, and Python.
- Developed RESTful APIs and integrated analytics pipelines that improved operational visibility and response times.
- Participated in Agile sprints and collaborated cross-functionally to align system design with product goals.

RIT Research (CISA), Software Engineer, NY — May 2023 – August 2023
- Created a multi-threaded Python + Java system for security vulnerability scraping and classification.
- Applied NLP techniques to identify CVEs, generate severity scores, and recommend remediation strategies.
- Decreased processing latency by ~30% and enabled near real-time data ingestion and analysis.

Projects

AI-Powered Pokémon Card Grader & Knowledge Assistant — July 2025 - Current
- Embedded 14k+ structured records in Milvus and developed a semantic search tool using RAG pipelines.
- Designed and deployed a Python-based grading system for complex card attributes.
- Built a natural language query interface in Vite to make structured data easily accessible.

Honeywell - Confidential Project — September 2024 – May 2025
- Migrated legacy codebase into modern Angular + Prisma stack with full backend test coverage.
- Built CI/CD pipelines for multi-environment deployment and regression testing.
- Created dashboard widgets for compliance visibility and user activity segmentation.

Face/Object Recognition Utility — February 2025 – March 2025
- Engineered a pattern recognition app with YOLOv3 and DeepFace for real-time classification.
- Integrated Flask API and UI with live drag-and-drop image analysis and log feedback.

MIT Think Competition (Semi-Finalist) — January 2019 – November 2019
- Created OCR smart glasses using Raspberry Pi and sensors, converting text to audio for accessibility.
- Ranked in the Top 12 nationwide in a prestigious research/innovation competition.

Skills

- **Languages & Frameworks:** Java (Spring Boot), Python, TypeScript, SQL, JavaScript, Flask, Node.js, Bash
- **Frontend & Visualization:** Angular, React (intro), Vite, D3.js, ChartJS, Matplotlib
- **Enterprise Systems & SDLC:** Microservices, REST APIs, CI/CD, Agile, UAT, Documentation, Production Support
- **Data & ML:** Scikit-learn, Pandas, NumPy, Transformers, spaCy, YOLO, DeepFace, ETL Pipelines
- **Databases:** PostgreSQL, MySQL, Prisma ORM, MongoDB (intro), Sybase (learning)
- **Messaging & Infra:** Kafka, RabbitMQ, Docker, Jenkins, GitHub Actions
- **Cloud:** AWS (EC2, S3, SageMaker – beginner), Azure (intro)
- **Collaboration:** Agile/Scrum, Jira, Technical Writing, Cross-functional Teams, UX Thinking