

Nico Wang

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github.com/WangWNico

Education

Rensselaer Polytechnic Institute

Troy, NY

B.S. in Computer Science GPA: 3.1

Expected Graduation Date: May 2026

Relevant Coursework: Data Structures, Algorithms, Discrete Math, Computer Organization, Operating Systems, Programming Languages, Applications of Java

Experience

Rensselaer Polytechnic Institute

Troy, NY

Machine Learning Data Synthesis Research Assistant

June 2024 - Present

- Utilized Hugging Face Transformers and Python-based machine learning libraries (PyTorch, TensorFlow) to fine-tune models for data synthesis, enhancing model accuracy and efficiency by 20%
- Performed evaluations and testing, expanded data storage by 30%, and reduced privacy leaks by 30%
- Led a team that developed and implemented a differential privacy algorithm, increasing data security by 25%

Rensselaer Center for Open Source (IBM SYSFLOW)

Troy, NY

Software Developer | Cyber Security Analyst

Jan 2024 - May 2024

- Led a team of 7 in threat analysis for Sysflow Telemetry, creating comprehensive documentation, reducing onboarding setup time by 50%, and enhancing team efficiency by 20%
- Developed tutorials for data science APIs, improving team proficiency in gathering data by 200%
- Analyzed and processed 20+ threats and vulnerabilities with Jupyter Notebooks by generating custom data and actionable insights

Rensselaer Center for Open Source (IBM CEPH)

Troy, NY

Software Developer

Sep 2023 - Dec 2023

- Enhanced the 'Ceph balancer status' command to provide detailed statistics on the changes made during the optimization of a Ceph cluster, gathering 50% more data
- Enhanced statistics tools by extracting key metrics from JSON logs, improving customer understanding of modifications through 10+ new statistics within their Ceph cluster resulting from balancer operations

Projects

MangoMaps.tech

- Utilized MapBox and Google Maps APIs in Next.js to create a disaster simulation playground that won the best Data Science Hack at HackRPI.

LifeScape Mobile App Development

- Utilized Expo Go, React, Typescript, Google Firebase, and PostgreSQL to create a mobile app for healthy habit-building

TanukiTreats.com

- Utilized technologies such as React, Next.js, Framer, Node, and APIs such as Stripe to develop an online shopping platform

Peer-to-Peer Battleship Game Using JavaFx

- Developed a Battleship game in Java using industry standards such as Java-Fx and J-Unit

Farmers Market Database Search

- Utilized MySQL, git, JavaFx, and Maven to create a Farmer's Market Search Engine that allows users to browse a database of farmer's markets in the United States, leave reviews, and read details

Conway's Game of Life Simulation

- Created Conway's Game of Life simulation in Java using technologies such as Java-Fx and J-Unit Tests

Skills

Certifications: AWS Cloud Practitioner

Technologies: Amazon Web Services, React.js, Next.js, Java-FX, Node, Docker, Framer, Linux systems, J-Unit, Godot Game Engine, Git, Linux systems, Vercel, Expo, Google Firebase, HuggingFace Transformers, PyTorch, TensorFlow, GoogleMaps APIs, MapBox

Coding Languages: Python, C, C++, Java, JavaScript, TypeScript, CSS

Others: Test Driven Development, Scrum, Jira, Confluence, Unit Tests