

Eddison So

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Hoboken, NJ

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EDUCATION

Stevens Institute of Technology

Hoboken, NJ

- *Bachelor of Science in Computer Science; GPA: 3.603*

Fall 2020 – Fall 2024

Minor in Mathematics

- **Relevant Coursework:** Software Development Processes, Database Management Systems, Enterprise Software Architecture and Design, Enterprise and Cloud Computing, Enterprise and Cloud Security, Deep Learning, Programming Languages, Operating Systems, Numerical Methods, Linear Algebra, Intermediate Statistics, Distributed Systems, Concurrent Programming
- **Awards and Achievements:** Edwin A. Stevens Scholarship, Innovation & Entrepreneurship Summer Scholar, Dean's List

EXPERIENCE

Stevens Institute of Technology

Hoboken, NJ

- *Research Assistant*

June 2023-Present

https://git.eddisonso2.com/eddison/sensor_data_visualization

The goal of the project is to develop a scalable network of sensors that provide a novel method of tracking flood in urban regions. My role in the project is to add additional sensor functionality through the use of a static rain-gauge and develop the backend infrastructure to support data persistence and processing.

- **System Design:** Designed and developed backend architecture for data persistence and processing based on functional and technical requirements using REST for interservice communication.
- **Database Engineering:** Designed database schema to be accessed using ORM for relational database (PostgreSQL) for the persistence of data.
- **API Design:** Designed and developed stateless business logic for high scalability of the API service using the Flask framework, Unicorn HTTP server and nginx loadbalancer.
- **Docker:** Container management and networking using Docker.

Stevens Institute of Technology

Hoboken, NJ

- *Course Assistant for CS382 (Computer Architecture and Organization)*

September 2023-Present

- **Lab Instructor:** Held laboratory sessions and office hours instructing students on low level computer architecture and organization.

PROJECTS

Project Matter

Hong Kong

- *Head of Engineering*

2018-2020

- **IoT Development:** Designed and built real time IoT sensors to collect PM2.5 and PM10 particulate concentration data using low-cost and open-source components.
- **Leadership:** Guided and led engineering and research team members on sensor usage, development, and maintenance.

SKILLS

- **Programming Languages:** Python, C, C++, Java, Go, C#, JavaScript, R, OCaml, ARMv8 Assembly
- **Tools:** Docker, Kubernetes, AWS, Microsoft Azure, Git, Linux, Ansible, Computer Networking
- **Languages:** English (Native), Cantonese (Native), Mandarin (Professional Working)