SOHAM NANDI

 sohamnandi.github.io

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Education

 Bachelor of Science in Computer Science   *Fall 2021 to Spring 2024*
University of Wisconsin–Milwaukee

Relevant Coursework

Machine Learning · Natural Language Processing · Cybersecurity · Functional Programming · Shell Scripting · Software Engineering · Operating Systems · Algorithms and Data Structures · Discrete Math · Linear Algebra

Technical Skills

Java · C++ · Python (Django, Flask) · C · HTML, CSS · JavaScript, TypeScript (Angular, React) · Scala · Git, GitHub, GitLab · SQL (MySQL) · UNIX, Linux (BASH), PowerShell · LaTeX · Microsoft Office

Research Experience

AI research team member | Informatics Skunkworks, University of Wisconsin–Madison   *Mar–May 2024*
Fine-tuned and optimized a generative ML model to discover crystalline materials.

> Remotely participated in a materials engineering research team working with a generative ML model for discovery of new crystalline materials. Worked with the Python library keras to fine-tune and optimize a novel neural network model for the task.

Work Experience

Student instruction leader | University of Wisconsin–Milwaukee   *Feb–May 2023*

> Tutored comp sci students in intermediate-level object-oriented programming using Java. Presented material to supplement coursework and held exam review sessions that dozens of students attended, leading to higher exam scores.

Technical Projects

- **Senior design project**   *Jan–May 2023*

  "Best Senior Design Project" award from the College of Engineering

  Designed and built the Lifting Progress Tracker web app to monitor fitness activity.

  - Collaborated in a team of six students on frontend and backend software engineering.
  - Designed and deployed a web app using Angular, Flask, and MySQL.
  - Worked on cross-platform functionality and integration between pages.
  - Awarded "best senior design project"

- **FIRST Robotics Competition**   *2017-2021*

  Designed code for robots, including autonomous driving and vision processing, for four years of high school.

  - Led a group developing autonomous driving capabilities using C++.
  - Designed the code for camera vision processing with object detection with a simple user interface.
  - Trained new members in GitHub.

Leadership experience

IEEE Computer Society at UWM, President/Officer   *2022-2024*

> Managed internal and external communications, marketing, and outreach, which led to increased engagement while I was president. Led events such as short demonstrations of computer skills for a general audience. Helped organize special events with hundreds of attendees.

Certifications

- CompTIA Security+ (*in progress, expected June 2025*)