

# SOHAM NANDI

sohamnandi.github.io  
Milwaukee, WI | (919) 214-6191 | sohamnandi@protonmail.com

## Education

 Bachelor of Science in Computer Science  
University of Wisconsin–Milwaukee

Fall 2021 to Spring 2024

## 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, Docker · LaTeX · Microsoft Office

## Research Experience

**AI research team member** | Informatics Skunkworks, University of Wisconsin–Madison  
Fine-tuned and optimized a generative ML model for the discovery of crystalline materials.

Mar–May 2024

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 January 2026*)