

STEPHEN NAH

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Bachelor of Science in Computer Science, Minor in Physics | GPA: 3.88/4.0

May 2025

Relevant Courses: Database Systems, Compiler Design, Introduction to Computer Systems, Advanced Computational Physics, Algorithm Design and Analysis, Parallel and Sequential Data Structures and Algorithms, Principles of Functional Programming

EXPERIENCE

CMU Computer Science Academy Software Engineering Intern

Pittsburgh, PA

Carnegie Mellon University

January 2024 – Present

- Work with React and Redux to build and maintain CS Academy website
- Develop production grade-features that enhance user experience and functionality

Teaching Assistant

Pittsburgh, PA

Carnegie Mellon University

January 2023 – Present

- Lead weekly recitation lectures and hold office hours for Principles of Functional Programming
- Provide feedback on hundreds of students' homework assignments and exams

CMU Computer Science Academy CPCS/Outreach Team

Pittsburgh, PA

Carnegie Mellon University

July 2022 – December 2023

- Designed and reviewed content for online Python curriculum for high school students and CMU students enrolled in introductory programming course
- Co-led professional development sessions to teach course content to high school teachers

Supplemental Instruction Leader

Pittsburgh, PA

Carnegie Mellon University

August 2022 – December 2022

- Led weekly study sessions for Physics I for Science Students, promoting engagement through collaborative activities

PROJECTS

Sprintdle

Personal Project

August 2023

- Built a website application inspired by Wordle using HTML/CSS and Javascript
- Implemented multiple diverse game modes such as Classic, Frenzy, and Survival
- Designed a how-to-play section and a statistics section based off local storage

Malloc Lab

Introduction to Computer Systems Project

July 2023

- Implemented a dynamic memory allocator for C programs via segregated free lists
- Achieved 74% utilization and 7k+ throughput

paigeBot

Personal Project

January 2023

- Created a social media application that quizzes users about images from entertainment media
- Used Python to request from multiple database APIs and scheduled coroutines concurrently

Cold Gravitational Collapse Simulation

Introduction to Computational Physics Final Project

December 2022

- Simulated three-dimensional N-body system using particle-mesh (PM) method
- Evolved gravitational collapse and explored resolution limitations of PM code
- Utilized Python libraries such as numpy, matplotlib, and scipy

SKILLS

Languages: Python, C/C++, Standard ML, OCaml, Rust, HTML/CSS, Javascript, SQL, Prolog

Other: Git, OpenMP, OpenACC, MPI, Apache Spark, TensorFlow, LaTeX, Autodesk Inventor, Video Editing