

STEPHEN NAH

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science, Minor in Physics

GPA: 3.96/4.0

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

Pittsburgh, PA

May 2025

EXPERIENCE

Teaching Assistant

Carnegie Mellon University

Pittsburgh, PA

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
- Create and playtest course material

CMU Computer Science Academy CPCS/Outreach Team

Carnegie Mellon University

Pittsburgh, PA

July 2022 – Present

- Design and review content for online Python curriculum made for high school students and CMU students enrolled in introductory programming course
- Co-lead professional development sessions to teach course content to high school teachers

Supplemental Instruction Leader

Carnegie Mellon University

Pittsburgh, PA

August 2022 – December 2022

- Led weekly study sessions for Physics I for Science Students
- Created problem worksheets and solutions for sessions
- Utilized collaborative activities to engage students with each other

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, SQL, Prolog, HTML/CSS, Javascript

Other: Git, LaTeX, Mathematica, Autodesk Inventor, Video Editing