

# STEPHEN NAH

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## EDUCATION

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### 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

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### 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

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### 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

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

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