

Scott Schwartz

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EDUCATION

Bachelor of Science in Computer Science, *University of Pittsburgh, Pittsburgh, PA*, **May 2025**
GPA: 3.61 **Dean's List:** Fall '21, '22, '23, '24 & Spring '24, '25
Relevant coursework: Algorithms and Data Structures 1 & 2 | Algorithm Design | Intro to AI | Intro to Machine Learning | Software Quality Assurance | Website Design & Development | Computer Organization & Assembly Language | Intro to System Software | Intro to Operating Systems

SKILLS

Python | JavaScript | Java | TypeScript | MySQL | HTML | CSS | React | C

RELEVANT WORK EXPERIENCE

- Junior Software Engineer**, *WebstaurantStore* **May 2024 - Aug 2024**
- Gained hands-on experience with Agile methodology and applied its practices in project workflows.
 - Contributed to the internal developer-portal team, working on the back-end of an automated quality-control plugin through code contributions, reviews, and cleanup.
 - Used error logs, VS Code debugging, and Postman API Platform to inspect, expose, and resolve bugs.
 - Refined error handling within the project, improving the program's reliability and robustness.
 - Used the Jest testing framework to write and execute unit tests, ensuring functionality and reliability.
 - Refactored code to improve readability, consistency, modularity, and maintainability while ensuring compliance with industry and company standards.
 - Skills used: Azure DevOps (project management, release management, code reviews), Git (version control), and Microsoft Teams (teamwork, collaboration, and communication).
- Undergraduate Teaching Assistant**, *University of Pittsburgh* **Aug 2023 - Dec 2023**
- Communicated complex concepts to students by breaking them down into small, digestible parts. Used real-world examples and interactive problem-solving techniques to enhance comprehension.
 - Led weekly recitation sessions to reinforce key concepts and guide students in their learning.
 - Provided individualized support during office hours, tailoring explanations to enhance understanding.

PROJECT EXPERIENCE

HTML/CSS: Portfolio Website- <https://scottschwartz342.github.io/>

AI/React/TypeScript: Dummy Wordle with AI Solver - <https://scottschwartz342.github.io/dummy-wordle/>

- A clone of the popular New York Times game Wordle, where you have 6 tries to guess a 5-letter word.
- Features an AI solver that uses Bayes' theorem and the product rule to choose the best guess.
- Skills used: Object-oriented programming (OOP), Jest, probability, npm, Git, VS Code debugger

JavaScript: *The Typing Monkey* - <https://scottschwartz342.github.io/typing-monkey/>

- JavaScript project based on the Infinite Monkey Theorem. Features a "monkey" randomly typing for a user-set amount of time. Tracks how many valid words were typed in said amount of time.
- Skills used: Object-oriented Programming (OOP), JSON, DLB Tries, UI, CSS Grid

Java: Virtual Memory Simulator

- Simulated Least Recently Used and Optimal Page Replacement Algorithms by reading traces of memory references that were generated by two processes while running on a 32-bit system.
- Successfully kept the program under project-specific time constraints by optimizing the algorithms using efficient data structures (HashMaps, LinkedLists) and proper programming techniques.
- Skills used: Object-oriented Programming (OOP), Command-line Argument Handling, File Handling/ Parsing, Algorithm Implementation, HashMaps, LinkedLists, PriorityQueuees

C: Filesystem Simulator

- Implemented a custom filesystem using FUSE, a Linux kernel extension, featuring a two-level directory structure and an indexed allocation strategy, via a single file representing a disk device.
- Skills used: Reading/Writing to Files, Memory Management, Indexing, Strings

LEADERSHIP/COMMUNITY ENGAGEMENT/WORK EXPERIENCE

Event Security — Taylor Swift, Drake & J. Cole concerts , <i>Landmark Security</i>	Jun 2023 & Feb 2024
Social Communications , <i>American Cancer Society on Campus at Pitt</i>	Dec 2022 – May 2023
Chief Justice, Judicial Board , <i>Sigma Alpha Mu, Psi Chapter Executive Board</i>	May 2022 – May 2023
Inbound Specialist , <i>Target</i>	Jun 2022 – Aug 2022
Grassroots Soccer Referee , <i>Long Island Junior Soccer League</i>	Apr 2016 – Nov 2022