

Scott Schwartz

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EDUCATION

Bachelor of Science in Computer Science

University of Pittsburgh, Pittsburgh, PA

Expected Graduation: April 2025

GPA: 3.58

Dean's Lists: Fall '21, '22 '23 & Spring 24

Relevant coursework: Algorithms and Data Structures 1 & 2 | Algorithm Design | Intro to Machine Learning | Software Quality Assurance | Web Site Design & Development | Comp. Organization & Assembly Language | Intro to System Software | Intro to Operating Systems

SKILLS

Java | HTML | CSS | JavaScript | TypeScript | C | Python | R

RELEVANT WORK EXPERIENCE

Junior Software Engineer

May 2024 - Aug 2024

Webstaurant Store

- Gained hands-on experience with Agile methodology and applied its practices in project workflows.
- Contributed to the company's internal developer portal team, more specifically, the back end of an automated quality control plugin via code contribution, review, and cleanup.
- Used error logs, VSCode debugging, and Postman API Platform to inspect, expose, and resolve bugs.
- Refined error handling within the project, improving the program's reliability and robustness.
- Utilized the Jest testing framework to write and execute unit tests, ensuring functionality and reliability
- Refactored code, providing more readable, unified, modular, and maintainable code that adheres to industry and company standards and practices.
- Skills used: Azure DevOps for project management, release management, and code reviews, Git for version control, and collaboration via Microsoft Teams.

Undergraduate Teaching Assistant at Pitt

Aug 2023- Dec 2023

For Discrete Structures for CS

- Organize and lead a weekly recitation session to support a class of students in understanding course materials. Specifically, topics such as Propositional Logic, Sets, Counting, Probability, and more.
- Hold regular office hours to provide additional one-on-one assistance and address problems.
- Demonstrate strong communication and teaching skills to help peers succeed academically.

PROJECT EXPERIENCE

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 restraints by optimizing the algorithms with the use of data structures such as HashMaps and Linked Lists and good programming techniques.
- Skills used: Object Oriented Programming (OOP), Command-line Argument Handling, File Handling/ Parsing, Algorithm Implementation, HashMaps, Linked Lists, Priority Queues

C: Filesystem Simulator

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

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

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 out in said amount of time.
- Skills used: Object Oriented Programming (OOP), JSON, DLB Tries, UI, CSS Grid

LEADERSHIP/ COMMUNITY ENGAGEMENT / WORK EXPERIENCE

People Division for American Cancer Society on Campus at Pitt *Social Comm.*

Dec 2022- May 2023

Executive Board for Sigma Alpha Mu Psi Chapter *Chief Justice of Judicial Board*

May 2022- May 2023

Security for Taylor Swift Concert *Landmark Security*

June 2023

Target Employee *Inbound Specialist*

June 2022- August 2022

Long Island Junior Soccer Referee *Grassroots Soccer Referee*

April 2016- Nov 2022