# Nicholas Karpovitch

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## EDUCATION

**Temple University**                                                  **Expected Graduation: Dec 2024**

Major: BS in Information Science & Technology                                        GPA: 3.09

**Relevant Coursework**: *Programming in Python, Data Structures, Discrete Math, Calculus, Systems Programming and Operating Systems, Database Management Systems, Network Architectures*

**Organizations**: Association for Computing Machinery (ACM)

## WORK EXPERIENCE

NDA, Software Engineer, Philadelphia, PA                                JUNE 2021 - AUGUST 2021
- Python script to quickly add sites to a firewall whitelist through company API
- Built in docker container to maintain stability with other parts of team's project

Saladworks, Sales Associate, Newtown, PA                                NOV 2017 - MAY 2019
- Provided cordial service and maximized sales by assisting customers in their purchase selections
- Responded to specific guest needs and resolved operational tasks with a sense of urgency
- Refined multitasking by completing additional duties to cashiering such as cleaning and prep work

## TECHNICAL PROJECTS

Personal Content Dashboard
- Created a program using Python and Reddit API to generate a dashboard to better view and sort through personal Saved and Upvoted (liked) content.
- The program was made because Reddit's default layout and systems does not provide a way to organize saved content in any meaningful way aside from chronological save date.

Game Account Statistics History
- Created a program using Python and Riot Game API for their game League of Legends to generate a summary of an account's history of matches and characters played as well as match history.

Destiny Live Tracker
- Created a program using Python and Bungie.net API for their game Destiny 2 to track a characters Live in-game activities given a profile ID.

Asteroids [Game Demo] – https://github.com/karponick/asteroids_test
- Used the Godot game engine and GDScript (engine's custom scripting language similar to Python)
- Allows pausing, restarting, drifting movement, screen wrapping, score count, death conditions.

2D Collision Tracker – https://github.com/karponick/ball-sim-thing
- Used Godot and GDScript to create 2D ball objects and tracked their positions and collisions as they bounced off each other and the sides of a resizable window.

Maze Generator
- Java program that generates a maze using depth-first search and then solving it with breadth-first search

Conway's Game of Life test
- Created various test cases for the cellular automation known as The Game of Life by John Conway
- Used Godot and GDScript to generate basic visual graphics for the algorithm.

Sudoku solver
- Java program that uses recursion to iterate through spaces on a Sudoku puzzle to solve it.

## SKILLS

COMPUTER: Python, Java, Kotlin, C#, C, SQL, Microsoft Word, Excel, PowerPoint, Git, Linux, Docker