Neil Kozlowski

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https://nkozlo3.github.io/PortfolioWebsite/   www.linkedin.com/in/kozlowskiN

Education

The University of Illinois, Urbana-Champaign, IL   Aug 2020 – Present

- Bachelor of Science in Computer Science & Statistics, GPA: 3.80
- Relevant Coursework: Data Structures, Discrete Structures, Matrix theory, Web Design, Linear Algebra, Calculus Based Statistics I and II, Calculus Sequence, Software Design Lab, Computer Architecture, Numerical Methods, Applied Regression and Design, Algorithms & Models of Computation.

Relevant Experience

National Information System/Developer Intern, ALDI USA, Aurora IL   May 2023-Aug 2023
- Responsible for supporting Aldi's National Operations
- Wrote PowerShell scripts to automate previously repetitive tasks

Data Structures Assistant, UIUC, Urbana IL   Jan 2023-Present
- Supported a introductory data structures course with an enrollment of 1300 students per semester
- Served as a first point of contact for students requiring debugging assistance completing assignments in C++
- Fixed vulnerability in the course's autograder that allowed students to run arbitrary code as the root user
- Wrote shell scripts that automatically configure students' developer environments
- Create a lab assignment covering the implementation of skiplists and Bloom filters

Projects
- Data analysis (https://github.com/nkozlo3/LinkedListLuvrs-OpenFlights-Graph-Algorithm.git):
  - Performed comprehensive data analysis of flight paths across the world using C++
  - Used Dijkstra's algorithm, Tarjan's strongly connected component algorithm, and depth first search to answer various questions about the flight paths dataset
  - Created a visualization of flights across the world using the Mercator projection
- Password manager extension (https://github.com/nkozlo3/ChromePasswordManagerExtension.git):
  - Wrote a password manager extension for chrome that creates, stores, and autofills passwords, in JavaScript
  - Implemented an encryption algorithm that salts and hashes passwords, allowing them to be safely stored
  - Ensured websites could only get passwords linked to their URL, from the extension
- Crafting and taming game (https://github.com/nkozlo3/CraftingTamingGame.git):
  - Built game in C# that allows users to collect resources to befriend or fight *creatures* while crafting useful tools
  - Created procedurally generated terrain using custom Perlin noise function
  - Implemented a crafting system that allows users to create increasingly powerful items
- Visit my GitHub to see my other projects: https://github.com/nkozlo3/

Hackathons
- 24th place in Fall CTF (capture the flag), UIUC
- CSAW quarter finals 2022
- ECTF Third Place UIUC https://credsverse.com/credentials/5128512b-5feb-420e-b8f9-ce2b35f00917

Computer Skills

Docker**|** Linux **|** Java **|** GitHub **|** C++ **|** Research

Awards and Interests

Collegiate National Honors Society (2020-Present), National Technical Honors Society (2017-2019),
National High School Scholar (2016-2020), UIUC Dean's List (2021-present)
Clubs: Active in UIUC Boxing, SIGPwny (cyber security), and GameBuilders (Game Design)