# Kamil Wisniewski

realisticallyspeaking101@gmail.com  github.com/ZoomyZoomer  (856) 669-7420

## EDUCATION

**Rutgers University, School of Arts and Sciences**                     Sept. 2021 – Present
*B.S. in Computer Science: New Brunswick, NJ*
**GPA: 3.8**, Dean's List, SAS Excellence Award
Coursework: Computer Architecture, Discrete Structures I-II, Data Structures, Systems Programming

## PROJECTS

**Pathfinder Visualizer | React.js**
- Leverages BFS, DFS, and A* search algorithms to intricately visualize pathfinding between two node counterparts by utilizing queues and array manipulation techniques
- Implemented graph generation and **dynamic** user-determined pathfinding through the use of React framework **components** and **hooks**

**MyMalloc | C**
- Developed an enhanced model of the pre-existing malloc and free C library functions through the implementation of a heavily needed **user-error detection system**
- Developed several **test cases** and test trials to validate the correctness of the new malloc and free model
- Took **runtime** into consideration and made several efforts to minimize it by employing various stress tests

**MyShell | C**
- Developed an immitation of the **Unix Shell** with an interactive and scripting command language
- Streamlined efficiency through the use of child processes with fork(), enabling the user to run external programs within the shell
- Features of tokenization, input and output redirection, piping, and wildcard implementation for path names is supported
- Developed a **testing process** along with README documentation explaining the use of certain features

## WORK EXPERIENCE

**Annex Faculty**                                                                 Piscataway, NJ
Annex Library, Rutgers New Brunswick                             Sept. 2021 - Present
- Assisted in the organization and execution of the Google Books Library Project for Rutgers New Brunswick while adhering to specific criteria and quality standards
- Streamlined work processes by merging external book and media databases with **Excel** spreadsheets, keeping location entries and shipments better organized

## TECHNICAL SKILLS

**Languages and Libraries:** Java, C, React, Javascript
**Developer Tools:** Git, Visual Studio, Eclipse