Kamil Wisniewski

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EDUCATION

Bachelor of Science in Computer Science
Rutgers University • New Brunswick, NJ • 3.8 / 4.0
- Deans List
- SAS Excellence Award

COURSEWORK

Computer Architecture, Discrete Structures I-II, Data Structures, Systems Programming, Operating Systems Design, Design and Analysis of Computer Algorithms

PROJECTS

Portfolio Website (Reactjs)
https://kamil-wisniewski.com/ • January 2024 - January 2024
- Created a virtual portfolio website to showcase my projects and skills in an interactive environment with the use of React.
- Used various React hooks such as useEffect paired with CSS to create dynamic and interactive website animations.
- Utilized Figma as a design tool to help come up with planning and layout.

Blogsite (MERN Stack)
https://github.com/ZoomyZoomer/OneBitePages • December 2023 -January 2024
- Developed a MERN stack blogsite application, utilizing MongoDB for database management, Express for server-side routing, React for front-end UI, Node for server-side scripting, and Amazon S3 for image storage
- Implemented a user authentication system mounted with an encryption model, enabling users to safely register, login, and edit their own public posts.
- Optimized communication channels through efficient network requests to their respective endpoints, ensuring seamless data exchange.

Pathfinder Visualizer (Reactjs)
https://github.com/ZoomyZoomer/pathfinder • September 2023 - October 2023
- Leveraged BFS, DFS, and A* search algorithms to 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.
- Improved rendering efficiency and enhanced responsiveness of the web application through the implementation of React props.

Shell Copy (C)
https://github.com/ZoomyZoomer/ShellCopy • November 2023 - December 2023
- Developed and deployed a Unix Shell copy using C programming language, featuring 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.
- Implemented support for tokenization, input and output redirection, piping, and wildcard implementation for path names.

Better Malloc (C)
https://github.com/ZoomyZoomer/BetterMalloc • September 2023 - October 2023
- Developed an enhanced model of the pre-existing malloc and free C functions through the implementation of a heavily needed user-error detection system.
- Created and executed multiple test cases and trials to validate the accuracy and effectiveness of the enhanced malloc and free model.
- Reduced runtime by implementing stress tests to optimize performance.

EXPERIENCE

Annex Faculty
Rutgers University **September 2021 - Present, New Brunswick, NJ**
- 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.

SKILLS

Programming Languages: JavaScript, Java, C, Haskell, HTML, CSS

Libraries & Frameworks: MongoDB, Express, React, Node, jQuery, Mongoose, Jsonwebtoken

Tools & Platforms: Amazon S3, Linux, Git/GitHub, Visual Studio, Eclipse, Figma, Adobe Photoshop, Clip Studio Paint, InDesign