Seth Kelley

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EDUCATION

Rutgers University   **New Brunswick, NJ**
Bachelor's of Science in Computer Science   *September 2021 - December 2023*

TECHNICAL SKILLS

- **Languages:** Java, C/C++, Python, SQL, Lean, Scheme, HTML/CSS, JavaScript, Typescript
- **Frameworks/Libraries:** Flutter, Flask, React, Tailwind
- **Developer Tools:** Git, GitHub, VSCode, Eclipse, Android Studio, MySQL, MongoDB, Autolab

EXPERIENCE

Data Structures Assignment Developer   **June 2022 - Jan 2024**
Rutgers University-New Brunswick   *Remote*

- Developed 7+ programming assignments from ideation to release to be used in Rutgers academic curriculum for 3000+ incoming students.
- Contributed code to a large system that would test 50+ test cases and verify the correctness of student submissions.
- Utilized various structures such as 2D Arrays, Graphs, Hashmaps, Linked Lists, and Trees (BST); implemented algorithms, such as Dijkstra's, BFS, and DFS.

Manager   **September 2016 - Present**
Jersey Shine & Lube   *Medford, NJ*

- Supervised and motivated a team of 10+ employees, fostering a collaborative and productive work environment.
- Strategically purchased and stocked merchandise and equipment, optimizing inventory turnover rates by 27% and ensuring product availability to boost sales by 64%.

PROJECTS

Spider-Verse | *Java*   **February 2024**

- Inspired by the animated Spider-man movies with Miles Morales, this graph assignment was produced to challenge 3000+ Rutgers students' abilities when working with Graphs and various data structures.
- Incorporated various methods for reading in a graph from an input file and using various methods such as DFS, BFS and Dijkstras' to traverse the graph and relay information from the traversals.
- Features range from creating the graph, finding routes, traversing to gather information at incorrect nodes and sending that information to the correct node, altering the state of a node and graph.

FitTrack | *Python, HTML/CSS, Flask, MongoDB*   **September 2023 - December 2023**

- Oversaw a cross-functional team of 4 individuals as the Scrum Master while maintaining an agile project management framework, ensuring effective collaboration, timely delivery, and adherence to project goals.
- Worked with unfamiliar technologies ranging from designing webpages and incorporating APIs to ultimately give users a unique experience to track, view and use tools for their fitness journey.
- Facilitated open communication within the team, fostering a collaborative and innovative environment while conducting regular scrum ceremonies, addressed impediments, and promoted continuous improvement.

Compiler and Optimization | *C*   **March 2023**

- Implemented methods to ensure a compiler makes use of multiple optimizations passes for tinyL
- Used techniques for the compiler to make improvements such as constant folding, strength reduction and dead code elimination.
- Improved ILOC instructions by using a sliding window to make use of the optimization techniques used.