

Robbie Deonarain

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Education

JAMES MADISON UNIVERSITY

Harrisonburg, VA

Computer Science, B.S.

May 2024

Relevant Coursework: Software Engineering, Data Structures and Algorithms, Computer Systems II,

Developing Interactive Multimedia, Discrete Structures II, Computer Graphics, Compilers, Applied Algorithms

Skills & Interests

- Programming Languages: Java, Python, Ruby, C
- Web Development: HTML, CSS, JavaScript
- Software Development Methodologies: Scrum and AGILE
- Tools and Environments: Windows, MacOS, Linux, Blender, ArcGIS, ArcGIS Pro, GIT
- Leadership and Team Collaboration

Projects

Calculator

Spring 2022

- Orchestrated the design and development of a high-performance calculator application with Java Swing, adhering to Agile and Scrum methodologies to foster a collaborative and flexible development process.
- Led a cross-functional team through iterative development cycles, ensuring rapid adaptation to changing requirements.
- Developed a multi-faceted conversion system within the calculator to handle various units such as weight, length, and temperature, prioritizing user stories and backlog items to meet core functionality goals in early sprints.
- Utilized Git for version control, managing branches and merge requests to coordinate code updates among 4 developers.
- Championed a responsive and adaptive GUI development process, utilizing Java Swing components that met evolving project requirements through regular iteration.
- Executed comprehensive unit testing with JUnit, reinforcing Agile commitments to high-quality outputs and regression prevention.
- Conducted Sprint Retrospectives to reflect on the development process, applying insights to optimize practices and boost productivity for subsequent sprints.
- Crafted and maintained a scalable and modular codebase using object-oriented programming techniques, allowing for streamlined enhancements in alignment with Agile principles.

Y86 Interpreter

Fall 2022

- Designed and implemented an instruction set architecture (ISA) simulator in C for the y86 instruction set, emphasizing on replicating the behavior of the y86 CPU execution cycle.
- Utilized a modular programming approach to separate the interpreter into distinct components for easier maintenance and scalability, including the fetch, decode, execute, memory access, and write-back stages.
- Deployed memory management best practices within C to ensure efficient allocation and deallocation of memory, preventing leaks and ensuring the interpreter's optimal performance in various operating environments.

Work Experience

Best Buy

Harrisonburg, VA

Mobile and Computer Sales Associate

Oct 2021- Present

- Implement effective training programs that equip individuals with the skills and knowledge needed to excel.
- Awarded "Top Sales Performer of the Month" multiple times for consistently achieving the highest sales figures and exceptional customer feedback.
- Resolved customer inquiries, concerns, and complaints with a high level of professionalism.
- Mentored and onboarded new sales team members, facilitating their rapid integration into the team and achieving sales quotas.