

Darasimi Ajayi

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EDUCATION

Dalhousie University

Bachelor of Computer Science

GPA: 4.17/4.30

Halifax, NS

Jan 2023 – Jan 2027

EXPERIENCE

Private Tutor

Dec 2024 – Present

Freelance

Halifax, NS

- Provided peer tutoring and academic support to classmates in various computer science courses, including web development, data structures and algorithms, database systems, and computer programming, leading to a grade boost of approximately 10% at the end of the semester.
- Assisted in explaining complex concepts, debugging code, and preparing for exams using methods that was tailored to each persons learning strength, increasing engagement and comprehension
- Created customized learning resources including exercises and challenges for the tutees, promoting proactiveness in learning, as well as also sharing learning some learning resources which i use, such as leetcode and W3Schools.
- Demonstrated strong communication skills and the ability to explain technical concepts in an accessible way.

Full Stack Developer Intern

Sep 2024 – Dec 2024

SimplyCast

Halifax, NS

- Reduced the team's outstanding bug ticket backlog by over 50% through , freeing up resources allocated towards bug-fixing.
- Resolved 50+ bug tickets, demonstrating strong problem-solving and analytical skills with tools like Chrome DevTools and Xdebug for PHP.
- With the experience gained with web development fundamentals, A proficiency in Angular, Vue and PHP was developed.
- Worked with a large codebase, contributing to the maintenance of a software system comprising over 2,000 files.

PROJECTS

16 Bit CPU | *Circuitverse, Java*

Feb 2023 – Present

- Designed and built a virtual CPU capable of executing 14 different instructions.
- Built and tested 50+ circuits with circuitverse with close to 100% coverage, which formed the core components of the CPU.
- Designing a custom assembly language for the CPU using java, making a foundation for the future programs that can run on the CPU.
- Debugged code with hand-tracing method to root cause a binary code bug in the CPU.

Graph Visualizer | *Java, Git, Swing*

May 2024 – Dec 2024

- Created a program to visualize connections in directed and undirected graphs, making debugging and analyzing complex graph structures easier.
- Implemented multiple path-finding algorithms, including A* and Dijkstra's, to enhance graph traversal and analysis capabilities.
- Programmed a custom Java array class implementation achieving a 20% to 30% performance improvement over the standard Array List class in certain scenarios, though it comes at the cost of higher memory usage.

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, MySQL, JavaScript, HTML, CSS, PHP

Frameworks: Spring, Swing, SCSS, Vue, Angular, jQuery

Developer Tools: Git, IntelliJ, VS Code, Visual Studio, Rider

Libraries: pandas, NumPy, Matplotlib, JUnit