

Education

Michigan State University
Bachelor of Computer Science
Minor in Entrepreneurship and Innovation

(May 2022)
East Lansing, MI
3.86/4.00 GPA

Experience

Michigan State University – Algorithms and Data Structures

(Aug 2020 – Present)

Undergraduate Teaching Assistant

- Designing student project specifications, test cases, and solutions for Heaps and Circular Deques. Assisting on projects covering Doubly Linked Lists, Recursion, Hybrid and Quick Sorting, AVL and Red/Black Trees, Hash Tables, Tries, and Graphs, alongside traversal and search algorithms including A-star search.
- Contributing to the creation and grading of quizzes, projects, and exams while providing feedback to, and helping, 250+ students through my office hours and online resources, such as Piazza.

AF Group

IT and Innovation Intern – Developer

(May 2019 – Aug 2020)

- Designed and evaluated proof of concepts for cloud architecture, customer facing software, and internal systems.
- Met with vendors to explore external software solutions.
- Developed, tested, and implemented software using .Net and C#. This included creating documentation for all libraries, procedures, processes, and systems.
- Worked on natural language processing and optical character recognition software. One project automated insurance claim intake by filing 80,000 claims per week, which reduced processing time by 75%. A second project was a chatbot that aggregated data across multiple sources to provide clients and customers with streamlined access to information during the COVID-19 Pandemic.

Spartan Blockchain Solutions

(Feb 2019 – Feb 2020)

Senior Analyst

- Modeled viable systems, and tested proof of concepts.
 - Extended successful POCs by implementing a durable solution that best satisfied client needs.
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Skills and Classes

Language and Framework Skills:

- High Proficiency: C++, C#, C, Python, Shell Scripting, SQL
- Medium Proficiency: Java, Blue Prism, XAML, HTML, CSS, JavaScript, Angular, Assembly (ARM architecture)

Technical Skills:

- Software development, agile, source control, networking applications and security, web app development, cloud computing (AWS/Azure), AI and natural language processing,

Classes:

- Python, C++, Algorithms and Data Structures, Computational Organization and Architecture, Discrete Structures and Mathematics, Software Design, Computer Systems, Intro to Machine Learning, Algorithm Engineering.
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Activities and Societies

Delta Sigma Pi
Spartan Breakdance – VP

(Aug 2019 – Present)
(Aug 2018 – Present)