

Sherkeem Duprey

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EDUCATION

University of Rochester

Rochester, NY

Bachelor of Arts in Computer Science

Aug. 2022 - May 2026

- Relevant Coursework: Data Structures & Algorithms, Web Programming, Artificial Intelligence, Mobile App Development

EXPERIENCE

Fullstack Software Engineering Intern

May 2025 - Present

Intuit

Mountain View, CA

- Incoming summer 2025 position focused on database-driven web application development
- Will participate in code reviews, production issue resolution, and automated testing

HVAC Automation Intern

June 2024 - August 2024

Merck

Rahway, NJ

- Implemented Pi Displays for 10 buildings, increasing HVAC cooling efficiency by 30% through data analysis and process automation
- Developed PowerApp with PowerBI integration to streamline reporting for 900+ monthly data points
- Identified and corrected 300+ undocumented points in PI system, improving data accuracy

XR Applications Developer

Sep. 2023 - Present

Studio X

Rochester, NY

- Created C# scripts for VR game functionality, showcased to 500+ patrons at exclusive events
- Conducted 60+ workshops on Unity and XR development for 1,700+ participants
- Provided technical consultations and Discord support for XR development projects

PROJECTS

Java Street Mapping | *Java, Data Structures*

2023

- Developed map processing application implementing Dijkstra's algorithm for shortest path routing
- Built custom HashMap and LinkedLists for efficient graph representation
- Implemented Kruskal's algorithm for minimum weight spanning tree calculations

Finite Automata String Validator | *C, Algorithms*

2023

- Created DFA/NFA simulator with interactive REPL for string validation tasks
- Optimized state transitions to improve processing efficiency by 20%
- Developed custom C structures to manage complex automata states and transitions

TECHNICAL SKILLS

Languages: Java, SQL, JavaScript, HTML/CSS, C, C#, Python, Swift

Frameworks: React, Node.js, Flask, SwiftUI, Unity

Developer Tools: Git, Docker, VS Code, Visual Studio, Xcode, PowerBI, Aveva PI System

QA Methodologies: Automated testing, Test coverage analysis, Agile processes