

Sherkeem Duprey

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EDUCATION

University of Rochester

Bachelor of Science, Computer Science

Rochester, New York

Anticipated May 2026

Relevant Coursework

Data Structures & Algorithms, Web Programming, Computation Formal Systems, Artificial Intelligence, Mobile App Development

Relevant Experience

Merck

Rahway, New Jersey

HVAC Automation Intern

June 2024 – August 2024

- Facilitated data analysis and automated processes through the implementation of Pi Displays for 10 buildings, resulting in 30% increase in HVAC cooling efficiency and real-time monitoring of key metrics.
- Developed a PowerApp to simplify disabled point reporting and viewing for 900+ points per month incorporating, PowerBI integration, and PI WebAPI for accurate tag location and validation.
- Identified and addressed over 300 undocumented points in the PI system, ensuring accurate and comprehensive documentation for all data points.

Studio X

Rochester, New York

XR Applications Developer

September 2023 – Present

- Teaching and providing support for over 60 workshops, attended by over 1,700 participants, through the academic year, on topics such as Unity, Blender and XR development.
- Spearheaded the advancement of the coding team in Aurum, the in-house alchemy VR game, exhibited to over 500 patrons at exclusive events.
- Provided technical consultations in-person and on Discord for XR development.

Juni Learning

Remote

Python/Java Instructor

September 2023 – May 2024

- Guided students to learn and become proficient within Java and Python with weekly sessions.
- Catered each lesson to student's needs, adapting the lesson to each learning style and personality.
- Instructed upon a diverse array of subjects, including OOP, sorting techniques, and understanding basic time complexity.

Projects

Java Street Mapping

- Developed a Java program for map processing, to determine the fastest/shortest destination route.
- Utilized my own custom built HashMap, and LinkedLists for graph representation.
- Enacted Dijkstra's algorithm for finding the shortest path.
- Implemented Kruskal's algorithm for finding the minimum weight spanning tree.

Java Painting Program

- Developed an interactive painting program enabling users to create and manipulate circle and square shapes on the screen.
- Implemented intuitive controls, including click-and-drag functionality, for precise positioning of shapes.
- Incorporated individual color controls for shapes and background, enhancing users' creative options and artistic expression.

LEADERSHIP ACTIVITIES

National Society of Black Engineers

Senator

September 2023 – Present

- Advocated for and upheld the organization's core values of academic excellence, success, and professionalism during official voting sessions.
- Enforced adherence to constitutional protocols, ensuring operational integrity and procedural compliance.
- Fostered an inclusive environment for over 100 members, promoting a welcoming atmosphere conducive to personal growth and collaborative learning.

ColorStack

Active Member

September 2022 – Present

- Collaborate with others on the latest developments in the tech world, in the largest community for underrepresented students

SKILLS

Python, NumPy, Flask, HTML, CSS, Java, C, Swift, C#, Git, PlasticSCM, Unity, Blender