

# Daniel Gekonde

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Computer Science student at Michigan State University with hands-on experience in data structures, algorithms, and systems programming. Seeking Summer 2026 software engineering or cybersecurity internship to apply technical skills in Python, C++, and systems design.

## EDUCATION

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**Michigan State University - College of Engineering**, E. Lansing, MI

Aug 2022 - Dec 2026

*Bachelor of Science, Computer Science, Dean's List*

*Selected Coursework:* Data Structures (Python), Computer Architecture, Machine Learning, Computer Security

## SKILLS

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**Programming Languages:** Python, C/C++, x86 Assembly, SQL, HTML/CSS

**Developer Skills/Tools:** Git, VS Code, PyCharm, CLion, Vim

**Technologies:** Windows, MacOS, Linux (Ubuntu), Excel

## PROJECTS

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### Michigan State University

#### *CSE 331 – Hybrid Sorting*

- Implemented a modular hybrid sorting algorithm by dynamically switching between merge and insertion sort based on sublist size to optimize performance in searching large-scale datasets

#### *CSE 331 – Dynamic Deque & Sliding Window Analysis*

- Implemented a Circular Deque data structure in Python with  $O(1)$  insertion/removal and dynamic resizing
- Emphasized robustness and scalability, ensuring correctness under varying input sizes and edge cases

#### *CSE 320 – Message Decryption*

- Translated variable-length encoded messages into ASCII by manually parsing and packing bits, with buffer-overflow protection using C to simulate firmware decoding in embedded systems

### Personal

#### *Portfolio Website*

- Designed and developed a responsive personal portfolio website using HTML, CSS, and JavaScript, featuring interactive project showcases, résumé integration, and a contact form

## EXPERIENCE

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### Elite Parking Solutions, Farmington Hills, MI

Aug 2021 - Present

#### *Valet Attendant*

- Delivered high-quality service for 200+ guests daily, managing logistics under time constraints while maintaining accuracy and customer satisfaction
- Introduced ticketless valet system to reduce customer wait time and improve efficiency

## INVOLVEMENTS

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### National Society of Black Engineers

Aug 2022 – Present

- Organized professional development workshops and networking events attended by 50+ peers, enhancing technical and career readiness

### Cybersecurity Club

Aug 2023 – Present

- Performed in technical workshops, analyzed blockchain fundamentals, cryptographic protocols, and decentralized systems security

### Association for Computing Machinery

Aug 2022 – Aug 2024

- Engaged with professional computing community through conferences, research publications, and technical workshops