

# Haron Mungiria

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## Education

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### Ph.D. in Computer Science

The University of Oklahoma

*In progress since Fall 2024*

*Norman, Oklahoma, USA*

### Master of Science in Computer Science

University of Central Oklahoma

*Graduated, May 2023*

*Edmond, Oklahoma, USA*

### Bachelor of Science in Computer Science

Meru University of Science and Technology

*Graduated, December 2015*

*Meru, Kenya*

## Teaching Experience

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### Graduate Teaching Assistant, The University of Oklahoma – Norman, OK

*January – September 2025*

- As the Graduate Teaching Assistant for Software Engineering, my duties included:
- Teaching the class when the professor was away.
- Assisting the professor with class activities.
- Answering students' questions related to course content, assignments, and course project.
- Grading assignments and supporting learning through constructive feedback.
- Reviewing the Software Capstone course, evaluating student projects and providing guidance for refinement.

### Teaching Assistant, University of Central Oklahoma – Edmond, OK

*January 2022 – May 2023*

- I served as a Teaching Assistant for five courses, namely:
  - Beginning Programming
  - Programming I
  - Programming II
  - Cybersecurity
  - Front-End Web Programming.
- In Beginning Programming and Programming I, I helped students learn programming through lab activities, hands-on exercises, and guided problem-solving sessions.
- In Front-End Web Programming, I helped students learn and implement projects using JavaScript, CSS, and HTML by assisting with debugging, and explaining key web development principles.
- In Cybersecurity, I guided students through scenarios on the importance of secure coding.
- I also graded assignments and proctored examinations.

## Industry Experience

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**Software Engineer**, MedNoc LLC – Oklahoma City, OK

*October 2025 – present*

*May 2023 – June 2024*

- Led the development of a testing platform for state certifications, architecting and implementing the system to support high reliability and scalability.
- Improved database performance by redesigning queries and indexing, reducing data retrieval time and enhancing user experience.
- Integrated a secure payment system, enabling transactions and ensuring regulatory compliance.
- Built APIs and backend services to support external integrations, increasing system interoperability.
- Implemented CI/CD pipelines and automated test suites to improve release frequency.
- Collaborated with QA, product, and compliance stakeholders to ensure functional accuracy, fulfillment of state requirements, and production readiness.

**Software Developer**, Apotech – Nairobi, Kenya

*2015 – 2020*

- Elicited and translated business and technical requirements into foundational system architecture and implementation plans.
- Conducted structured code reviews to uphold code quality, maintainability, and security across the team's codebase.
- Wrote clear technical documentation and provided user support to ensure smooth adoption and reduce operational overhead.
- Debugged and resolved production issues, improving system stability and reducing support turnaround time.
- Participated in sprint planning, estimation, and backlog refinement to align delivery timelines with product roadmaps.