

# Thomas Shikalepo Deon

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**Website:** [thomasdeon.netlify.app](https://thomasdeon.netlify.app)

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## OBJECTIVE

Motivated second-year Computer Science student at the Namibia University of Science and Technology, aspiring to secure a software engineering internship at Nedbank Namibia. With a strong foundation in programming languages such as Python and Java and hands-on experience in web development (HTML, CSS, and JavaScript), I am eager to apply my skills to real-world projects. Dedicated to learning, innovation, and collaboration, I aim to contribute to the development of impactful software solutions while gaining practical industry experience.

## SKILLS

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<u>Skill Category</u>	<u>Skills</u>	<u>Proficiency Level</u>
• Front-End	○ HTML	○ Intermediate
	○ CSS	○ Intermediate
	○ JavaScript	○ basic
• Back-End	○ Ballerina	○ intermediate
	○ PHP	○ basic
	○ java	○ Intermediate
	○ Python	○ Intermediate
• Database	○ SQL	○ Intermediate

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## EDUCATION

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### Namibia University of Science and technology :

- *Computer Science, Software Engineering*

### A Shipena Secondary school:

- 41 points in grade 12
- 37 points in grade 11

### Certifications:

- CCNA1 (Cisco Certified Network Associate): *Basic switching and routing*

- CCNA2 (In Progress): *Switching, Routing, and Wireless Essentials*

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## PROJECTS

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### Micrograd Implementation and Development

- Built a lightweight autodiff engine inspired by Micrograd to simulate neural network operations.
- Implemented forward and backward propagation for gradient-based learning in a custom computational graph.
- Optimized machine learning workflows using Python and libraries such as NumPy, Matplotlib, and Graphviz for visualization and computation.
- Demonstrated expertise in implementing neural network foundations, including gradient descent and optimization techniques.

### Football Match Analysis Using AI and Computer Vision

- Developed a video analysis system to detect and track players, referees, and footballs using YOLO for real-time object detection.
- Enhanced detection accuracy by training the YOLO model with custom datasets.
- Segmented and clustered players into teams using K-means, enabling the model to differentiate between teams and analyze ball possession percentages.
- Implemented player and referee tracking, distinguishing roles and teams during match analysis.
- Applied optical flow and perspective transformation to measure movements and convert pixel data into real-world metrics like speed and distance covered.
- Tackled real-world challenges, integrating computer vision, clustering, and object tracking for advanced sports analytics.

### Kafka logistic system

- Designed an Apache Kafka logistic system using Ballerina as the backend.
- Implemented features for standard, express, and international shipping options.
- Utilized Kafka as middleware to efficiently handle logistics, managing data through various topics.

### Personal Website

- Developed a personal website using HTML, CSS, and JavaScript to showcase my skills and projects.
- Designed a user-friendly interface to enhance user experience and accessibility.
- Implemented responsive design techniques to ensure compatibility across various devices and screen sizes.

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## INTEREST

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### **Coding**

- Passionate about software development and continually improving programming skills.

### **Data Analysis**

- Enthusiastic about data-driven decision-making and analytics, particularly in educational contexts.

### **Web Development**

- Keen on creating interactive and user-friendly web applications.

### **Social Impact Projects**

- Committed to leveraging technology for social good, as evidenced by developing solutions to improve public safety in Namibia.