Thomas Shikalepo Deon

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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

Skill Category	Skills	Proficiency Level
Front-End	HTML	Intermediate
	CSS	Intermediate
	JavaScript	basic
Back-End	Ballerina	intermediate
	PHP	basic
	java	Intermediate
	Python	Intermediate
Database	SQL	Intermediate

EDUCATION

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*

PROJECTS

Immersive 3D Portfolio Experience

- Conceptualized and built a cutting-edge portfolio website using Next.js, Three.js, and Tailwind CSS, combining innovative technology with artistic design.
- Designed visually compelling animations, including a rotating icon as the main focal point, a disappearing staff in the project section for mobile users, and a spinning hat in the "About Me" section, showcasing advanced use of Three.js for 3D modeling.
- Incorporated audio features to enhance interactivity, demonstrating attention to user engagement and experience.
- Utilized GitHub APIs to dynamically display real-time coding activity and performance statistics, reflecting strong integration and API handling skills.
- Optimized the website for responsiveness and accessibility across multiple devices and platforms, ensuring a flawless user experience.

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.
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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.

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.