**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 * Python | * Intermediate * 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.

**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.