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|  | Hamza Madi  Computer Science and IT | | | | | Newcastle  Madadeni, 3718, 2951  0827628176  lionhamza39@gmail.com |  |
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|  | EDUCATION | Feb 2021-  Feb 2024 | |  | EDUCATION **Computer Science and IT**  **University Of KwaZulu-Natal, Westville, Durban**  *Currently in my final year, I am focused on advanced studies in algorithms, artificial intelligence, and databases. Collaborative projects have enhanced my coding proficiency and provided a comprehensive understanding of the tech field, equipping me for a dynamic career in technology*.  **Relevant Coursework**  ***Computer Science****: Data Structures, Algorithms, Programming Languages, Web Programming, Machine Learning* *Informatics: Computer Networks, Databases, Client-Side Development, Systems Design and Analysis* | |  |
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|  | Professional experience | Jan 2025- Present  Dec 2025-  Present  July 2024-  December    Nov 2023-  Feb 2024 | |  | Software Developer Trainee, AI Reality Lab*- Contributed to the development of Marvel AI, an open-source project leveraging Next.js, React, Redux Toolkit, and Firebase to provide smart tools and chatbots for educational use.**- Collaborated on features using tools like MUI, React Hook Form, and Axios to enhance user experience and backend connectivity.**- Ensured code quality and consistency by implementing standards with ESLint, Prettier, and Husky.**- Documented architecture, folder structures, and deployment setups, supporting seamless cloud and local deployment workflows.**- Actively participated in open-source contributions and resolved issues in Remark and other integrated components.* **Python Developer,** **Outlier**  - Onboarded as a Python Developer to support the development and optimization of backend systems.  - Currently familiarizing with project workflows and contributing to minor debugging tasks and code reviews.  - Preparing to work on scalable Python applications and exploring frameworks like Django, Flask. Demonstrator, University of KwaZulu-Natal*- Supporting first-year students with Object-Oriented Programming (OOP) and Java.* *- Delivering explanations of complex concepts, troubleshooting code, and guiding hands-on programming exercises.* *- Strengthened teaching, communication, and foundational software development skills.* Web developer, Discount Mall*- Developed and optimized a dynamic website using HTML, CSS, JavaScript, and React.js.* *- Achieved a 20% increase in user engagement through effective design and functionality enhancements.*  *- Collaborated in an agile team environment to deliver solutions for a fast-paced startup.* | |  |
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|  | **Personal Projects**  **TECHNICAL SKILLS** |  | |  | - **Clinic Management System Web Application**: Built with .NET (C#, HTML, CSS, JavaScript, SQL).  - **Clinic Management .NET Application**: Developed using C#.  - **Quiz Application:** Built with .NET and C++.  - **E-commerce Website**: Freelance project using React, Flask, and CSS (Flexbox).  Explore my projects on GitHub: [github.com/lionhamza](<https://github.com/lionhamza>)  - **Programming Languages**: Java, Python, C++, C#, SQL.  - **Web Development**: HTML, CSS, JavaScript, React.js.  - **Frameworks**: .NET, Flask.  - **Development Skills**: Debugging, testing strategies, full software development lifecycle. | |  |
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|  | **Skills & Abilities** |  | * *- Efficient problem-solving and debugging skills.* * *- Proficient in creating responsive and scalable applications.* * *- Strong collaboration and communication in team-oriented environments.* * *- Adaptability to new tools and emerging technologies.* | | | |  |
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