

DAVID EBULA

+27678192979

davidebula642@gmail.com

<https://davidMumpasa.github.io/Portfolio>

South africa, Pretoria, Gauteng

Education

Bachelor of Computer science

Tshwane university of technology
2020 - 2023

Expertise

C# .NET Jenkins Pipeline

Python Angular.js

React.js Java

Rest API MySQL

React Native Spring boot

Language

English

French

Interests

Playing video Games

Playing soccer

Playing basketball

Reading

Software Developer

Profile

Experienced Full-Stack Software Developer, AI Engineer and Technical Lead with a strong background in software development, AI-driven solutions, and technical leadership. Skilled in web, mobile, and AI-powered applications, with a proven track record of leading teams, driving innovation, and delivering scalable solutions in both startup and enterprise environments. Passionate about developing intelligent systems, optimizing user experiences, and leveraging emerging technologies to solve real-world challenges.

Work Experience

2022

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2023

XGile-IT

Software Developer

- Designed and built robust REST APIs to support seamless integration with frontend components, enhancing application performance and user experience.
- Contributed to the design and development of mobile applications, focusing on responsive and intuitive user interfaces.

2023

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Present

Fluid Intellect

Technical Lead – Software Developer & AI Engineer

- Designed and implemented scalable REST APIs and backend services to support AI-driven applications.
- Collaborated with cross-functional teams to design and deliver AI-powered solutions, including natural language processing (NLP) tools and computer vision systems.
- Developed responsive and interactive **user interfaces** using modern frameworks like **Angular.js** and **React Native**.

Certificates

- Cisco networking

Projects

CMS Health Benefits Bridge

Role: Software Developer / Technical Lead

Technologies: Python, React.js, MySQL

Developed a web portal for Health Benefits Bridge, a project under CMS — South Africa's largest medical scheme regulator. Designed and implemented structured data entry for capturing medical scheme benefit options. Built role-based workflows to streamline operations for Data Officers, enabling efficient data capture, review, and management. Integrated email-driven approval processes for Principal Officers to enhance accountability and decision tracking.

Key Contributions:

- Built a Python (Flask) API to handle structured benefit data entry and storage.
- Developed an React.js UI for a seamless user experience with validation and guided workflows.
- Implemented a sidebar-based navigation system that unlocks sections sequentially.
- Created dynamic form handling for Continuation, Discontinuation, and Restructuring workflows.
- Designed Health Basket service data entry with structured funding and service delivery categories.
- Integrated email-based approval system for the Principal Officer's authorization.
- Insured data integrity and role-based access control.

Satori – Custom Generative AI for Document and Database Querying

- **Description:** Developed "Satori," a custom generative AI platform designed to answer complex queries related to documents and databases. The system leverages advanced natural language processing (NLP) and machine learning algorithms to understand user questions and retrieve accurate, context-aware answers.
- Engineered a robust data pipeline to ingest, preprocess, and store large volumes of unstructured and structured data, ensuring efficient and scalable access to information.
- Integrated the AI model with various data sources, including document repositories and relational databases, enabling seamless querying across different data formats.
- Implemented custom NLP algorithms to parse and understand user queries, enhancing the AI's ability to interpret context and provide relevant responses.
- **Technologies Used:** Python, NLP, Machine Learning, MySQL, Hadoop, Spark, Denodo, Jenkins, RESTful APIs, AWS.

References

Coretta Siphuma

Email: coretta@fluidintellect.com