

# MOHAMMED WAJAAHATH YASIN

## JUNIOR SOFTWARE ENGINEER

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Driven software engineering student who completed a rigorous bootcamp with a strong foundation in Python, SQL/SQLite, Sphinx, and Git. Gained hands-on experience developing clean, efficient backend applications and solving complex problems. Recently graduated from the Elixirr AI Academy, where I built real-world AI and cloud-native solutions using Python, AWS, LangChain, and vector databases. Brought a collaborative mindset and technical expertise to innovative, high-impact software development projects.

## TECHNICAL EXPERIENCE

### HYPERIONDEV, Software Engineering Bootcamp

10/2024 - 01/2025

The bootcamp aims to introduce and develop Python and machine learning knowledge in students by completing practical challenges and projects.

- Achieved an overall average of 96% for the bootcamp tasks
- Completed a total of 29 minor tasks and 3 major capstone projects.
- Mastered Python programming within three months, enhancing coding skills and efficiency in data manipulation and analysis.

### ELIXIRR AI ACADEMY, AI & backend engineering trainee

03/2025 - 04/2025

Completed a rigorous AI engineering program focused on practical implementations of AI, vector search, and scalable backend systems. Delivered multiple projects leveraging AWS, Python, and LangChain.

- Designed and deployed a music recommendation system using LastFM API, AWS Lambda, Athena, DynamoDB and Glue for ETL and vector search.
- Developed a case study retrieval chatbot with chromaDB, Amazon Titan embeddings, and LangChain to provide filtered and summarized document insights.
- Built a cryptocurrency assistant with real-time price tracking, conversion and chatbot capabilities using Streamlit and Claude 3 via Amazon Bedrock.
- Designed Word2Vec models (CBOW and Skip-Gram) on the IMDB sentiment dataset, performing t-SNE visualizations and KMeans clustering on word embeddings.
- Indexed and retrieved documents using OpenSearch, Titan embeddings and LangChain for semantic search applications.
- Implemented metadata enrichment, industry classification, and location detection using Claude and zero-shot learning techniques.

## PROJECTS

### EXPENSE AND BUDGET TRACKER

12/2024

- **Description:** Developed a financial tracking application to manage income and expenses, categorize transactions, set budgets, and track progress toward financial goals. Integrated SQLite to store and retrieve data, enabling real-time calculations for budget and goal tracking.
- **Tech Stack:** Python, SQLite, SQL, Database Management.
- **GitHub Repository:** [\[budget\\_tracker\]](#).

### BOOKSTORE MANAGEMENT SYSTEM

12/2024

- **Description:** Developed a database-driven application for a bookstore to manage inventory. Features include adding, updating, deleting, and searching for books. Implemented using SQL for database operations and Python for the user interface, enabling efficient and user-friendly inventory management.
- **Tech Stack:** Python, SQLite, SQL, Database Management.
- **GitHub Repository:** [\[bookstore\\_managemnet\\_system\]](#).

## TASK MANAGEMENT SYSTEM

11/2024

- **Description:** Designed and implemented a task management application for a small business, facilitating task assignment, tracking, and user management. The system enables user registration, task addition, and personalized task views, with an admin dashboard for statistics and user management.
- **Tech Stack:** Python, File I/O, String Manipulation, Data Handling, PEP 8 Standards.
- **GitHub Repository:** [[task\\_management\\_system](#)].

## TECHNICAL SKILLS

- **Languages & Tools:** Python, SQL/SQLite, Git, Bash, Streamlit.
- **Databases:** DynamoDB, SQLite, ChromaDB, OpenSearch, Athena.
- **Cloud & DevOps:** AWS (Lambda, S3, Glue, Athena, Bedrock, SNS), Amazon Titan Embeddings.
- **AI & ML:** Word2Vec, Gensim, t-SNE, KMeans, LangChain, Claude 3, Prompt Engineering.
- **Other:** Sphinx Documentation, REST APIs, Data Pipelines, Vector Search.
- Proficient in word, excel, power point and Microsoft office tools.

## SOFT SKILLS

- Accountability, Analytical Thinking, Adaptability, Communication, Collaboration, Problem Solving, Technical Communication, Initiative, Time Management, Critical Thinking, Self-Motivation, Continuous Learning.

## OTHER WORK EXPERIENCE

### SIGMA (VBL COLLECTIONS) - COLLECTIONS AGENT

07/2022 – 07/2023

#### KEY ACHIEVEMENTS:

- Met 95% recovery rate monthly and improved repayment success via tailored communication.
- Developed skills in negotiation, high-pressure problem solving, and KPI-driven performance.

### CMH KEMPSTER FORD - ADMINISTRATIVE ASSISTANT

01/2021 – 12/2021

#### KEY ACHIEVEMENTS:

- Supported invoice processing, document management, and customer communications.
- Improved internal workflows through efficient documentation and client follow-up.

### TRUWORTHS - CASHIER

02/2017 – 02/2018

#### KEY ACHIEVEMENTS:

- Maintained 100% cash handling accuracy and delivered high-quality customer service.
- Enhanced efficiency during peak hours and improved queue management.

## EDUCATION

**HYPERIONDEV** · Software Engineering Bootcamp

10/2024 - 01/2025

**DURBAN UNIVERSITY OF TECHNOLOGY** · BEng Tech Chemical Engineering

02/2017 - 02/2021

**VERULAM ISLAMIC SCHOOL** · BACHELORS (NSC) MATRIC PASS

01/2005 - 12/2016

## REFERENCES

Available on Request.