Jima Dube Nuture

Software Engineer

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Professional Experience

Full Stack Developer | Next.js | Fastapi | Node.js, *Shega Media and Technology*
         12/2023 – Present
         Addis Ababa, Ethiopia

- Developed a scalable **FastAPI backend service** that pulls ML models from **Azure Blob Storage** to **predict main, sub, and sub-sub categories** from user-provided titles. This system automated classification for uncategorized datasets, improving tagging accuracy by **over 85%** and reducing manual effort by **70%**.
- Scraped and aggregated datasets from **10+ websites**, transforming raw data into **interactive charts, infographics, and articles**. These visualizations increased user engagement by **40%** and enhanced data storytelling.
- Engineered a robust **PDF parsing system** that chunks large documents and stores embeddings in **ChromaDB (vector database)**. Enabled **real-time Q&A** with PDFs, achieving **90%+ query accuracy** and reducing information retrieval time by **60%**.
- Integrated **vector database** support into the knowledge base of our AI-powered system (**Ask Shega**), significantly enhancing semantic search accuracy and information retrieval capabilities.
- Integrated **GraphQL API** to streamline data queries between frontend and backend, increasing data access flexibility and reducing frontend query complexity by **50%**.

Backend Developer |.Net Core, Node.js Developer, *Eskalate LLC*
         10/2023 – Present
         Addis Ababa, Ethiopia

- **Developed a secure REST API** using **C# and .NET Framework**, reducing **security vulnerabilities by 80%** and enabling encrypted communication for student users.
- **Applied Clean Architecture principles** by decoupling layers (Domain, Application, Infrastructure, and Presentation), which **decreased development time by 20%** and improved maintainability.
- Achieved **95% test coverage** using **xUnit**, **Moq**, and **FluentAssertions**, significantly increasing code reliability and facilitating continuous integration.
- **Integrated JWT-based authentication**, reducing **unauthorized access attempts by 80%** and ensuring secure user sessions.
- Authored **comprehensive technical documentation**, including **user stories, functional requirements**, and **system architecture**, streamlining team collaboration and onboarding.
- Optimized API performance by implementing **pagination for large data sets**, resulting in a **45% reduction in response time** and preventing memory overload during high-volume requests.

Front End Developer | React, Next.js, *Microsun Solution*
         06/2023 – 09/2023
         Addis Ababa, Ethiopia

- **Led a team of 5 developers** to build an online learning platform tailored for local users, resulting in **1,200+ learners** and **300+ certifications issued** within the first 6 months.
- Implemented third-party GitHub authentication and APIs for data visualization of students' progress.

- Implemented secure **JWT-based authentication** and encrypted user credentials using advanced hashing, enhancing data protection and reducing unauthorized access attempts by **90%**.

Education

Bachelor of Science in Software Engineering, 11/2019 – 07/2024
Addis Ababa Science and Technology University (AASTU) Addis Ababa, Ethiopia
Relevant Courses: Programming (C++), OOP (Java), Networking, Distributed Systems, Computer Security, Software Design and Architecture.

Data Structures, Algorithms, and Problem Solving | Competitive Programming, 11/2022 – 10/2023
Africa To Silicon Valley | A2SV, Backed by Google twice Addis Ababa, Ethiopia
- A2SV is empowering African students with tech education, more than 80 students secured full-time SWE jobs at top-tech companies including Amazon, Microsoft, Google, Bloomberg, Palantir.
- I completed intensive in-person training in algorithms, software engineering, and communication, applying skills through real-world team projects, and gained hands-on experience in the industry environment.

Skills

Programming Languages
- C++
- Python
- Java
- C#
- JavaScript
- TypeScript

Databases
- PostgreSQL
- MS SQL Server
- MySQL
- MongoDB
- Redis

DevOps
- GitHub Actions
- Docker
- Google Cloud Platform (GCP)
- VPS server.

Web Frameworks
- React.js
- Node.js
- Express.js/NestJS
- ASP.NET Core

Version Control
- Git
- GitHub

Achievements and Certifications

Top Semi-Finalist in the Largest Ethiopia Hospitality Hackathon

A Recognition for Mentoring and Teaching young student

Projects

Pure Art Platform, *Nextjs, Strapi, Render*   04/2025 – 07/2025
- Created an online platform that bridges **visual artists** with global audiences and collectors.
- Onboarded **50+ verified artists** and hosted **300+ curated artworks**, enabling wider exposure and increased sales opportunities.
- Designed a clean, gallery-style interface to enhance discoverability and user engagement.
- Facilitated **20% month-over-month growth** in user visits and inquiries through SEO optimization and integrated social sharing.

AI Proposal Writing, *Nextjs, Nest.js, Geminia*   02/2025 – 07/2025
- Built a powerful **AI-driven web application** to automate and streamline proposal writing for professionals and businesses.
- Reduced proposal drafting time by **up to 70%**, allowing users to shift focus from formatting to content value.
- Integrated **natural language processing (NLP)** to generate context-aware proposals, improving output quality and professionalism.
- Used **React, FastAPI**, and **OpenAI APIs** to ensure a smooth and intelligent user experience.