

Natnael Assefa

Full-Stack web developer

As a seasoned Full Stack web app developer, my passion lies in harnessing the power of AI (especially LLM agents) to push boundaries. With expertise in React, Node and Express (JavaScript and TypeScript), SpringBoot (Java), FastAPI (Python), the newly popular ERPNNext(Frappe) framework, I've consistently delivered projects with precision and efficiency. Transitioning into the realm of AI, I'm committed to staying at the forefront of innovation, seamlessly integrating AI solutions into my work to tackle problems with unparalleled ingenuity.

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WORK EXPERIENCE

Senior software developer Fineto IoT products

10/2021 - Present

Addis Abeba, Ethiopia

A tech company based in Finland, works on almost every tech aspect.
Check: <https://fineto.fi/about>.

Achievements/Tasks

- Involved in building a tool like Copilot AI(Apart from LLM's known ability, you can basically search anything about the company) using AI tools like Autogen, PrivateGPT and SuperAGI, etc. which involves agents(LLM with powerful prompts), skills(functions) and workflows(multiple agents collaborating).
- Involved in a realestate management system/website called Boingo that aims to contend with the famous realestate website zillow.com. I was responsible for the development of affiliation and subscription system features which uses stripe for payments.
- Involved in building a chatbot (chatbot for a company website) that uses LLMs and integrating this chatbot with Microsoft Teams and Slack chatbots using automation and integration tools like n8n, MindsDB.
- Designed and built responsive, independent and powerful react components and UIs that increased the application's performance and scalability. The components were tested and found to be 30% faster than the previous version.
- Built an erp(next) frappe backend app using bench, by creating doctypes and using them as tables and for the crud on tables used react-frappe-sdk provided hooks.
- Developed a Windows app using Python that writes patient records to an Excel file. The app uses the Excel file as a database, which improved the efficiency of the record-keeping process by over 80%.
- Collaborated with a team to develop a drag and drop component builder application in and React that improved the user experience of the application.

Contact : Sami Mohammed - sami.mahamoed@fineto.fi

EDUCATION

Computer Engineering Bahir dar University

10/2016 - 08/2021

3.0

Courses

- Algorithms
- Database
- Data structure
- Software Engineering
- AI

SKILLS

JavascriptTypescriptReactPython

NodeNetworkingJavaGitMongoDB

MERN stackSpringBootGradleReact-Redux

Express.JSCSSFlutterDartREST API

FastAPIFlaskAI AgentsLLMs

Frappe(ERPNNext)Redux toolkitJhipster

PostgreSQLSequelize

PERSONAL PROJECTS

Ethiopian counterfeit currency detection system. (02/2021 - 06/2021)

- My system was able to detect the difference between a fake currency and the real one if a picture is presented to it. Deep learning was used to train my system.

House Security System (07/2021 - 12/2021)

- This system was able to detect any movement around a house particularly its door, and take a picture and process it and if a face on the picture looks unknown, warns the owner to start the video camera and survey, the system can be turned off or on. Used Arduino, camera, Panasonic sensor and a python script to process image.

Clinic Card Management System (09/2022 - 11/2022)

- This system was designed for windows desktop using Python, and uses excel file for data storage, to store patient information. It receives full name, phone number, age, sex, residence and a unique number. And it uses all these information to look it up in the excel for future use.

LANGUAGES

English
Full Professional Proficiency

Amharic
Native or Bilingual Proficiency

INTERESTS

DevelopingBooksTech newsSport

AI