Salam Aboul Hosn

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Education

University Of California, San Diego — San Diego, CA
B.S in Math-Computer Science — *2021 - 2024*

Experience

Best Choice Products — Sep 2024 - Present
Software Engineer — *Newport Beach, CA*

- Developing a Warehouse Management System using **Java (Spring Boot)**, Angular, & Microsoft **SQL** Server that supports fulfillment of $500M+ in annual sales.
- Built used-item workflows in WMS, preventing $1M+ in losses & **generating $800K+ annual resale revenue**.
- **Reduced annual labor costs by $600K** by designing a cycle-count prioritization algorithm.
- Built **AI agent** using **Python**, LangGraph, LangChain, & an **MCP** server to debug production errors faster.
- Purged 125M stale database rows, reducing compute costs by 70% and **saving $36K** annually.
- Building Pulse using **Golang**, **Next.js (TypeScript)**, & **PostgreSQL** to forecast and price 10,000+ products.

MyMicrojourney — Oct - Feb 2024
Software Engineer Intern — *Remote*

- Built a **Rest API** using **Java Spring Boot** and utilized **MySQL** to store user data.
- Developed landing pages, components, and forms using **React** completing 100% of the front end.
- Utilized Spring Security to perform a one way hash for passwords, increasing data security.
- Defined data models using JPA annotations and created User & Email services for sign up process.

Smart Twigs — Apr - Aug 2023
Software Engineer Intern — *Remote*

- Used **React** & **TypeScript** to build a platform for non-profits to spread awareness of current issues.
- Created reusable React components, enhancing design uniformity and accelerating development.
- Built complex forms in order for users to create organizations, programs, and projects.
- Leveraged React Hook Form with Zod to collect, validate, and submit user data to the back end.

Technical Skills

Languages: Java, Python, Go, JavaScript, TypeScript, Node
Frameworks/Libraries: Spring Boot, React, Angular, Next, Express, Tailwind, Material-UI, Shadcn
Web & Databases: Microsoft SQL Server, PostgreSQL, Redis, MySQL, MongoDB, BigQuery, HTML, CSS
AI/LLM: LangGraph, LangChain, LangSmith, MCP Server, LLM Evaluation, Prompt Engineering, Context Engineering, Tool Calling, Structured Outputs, Agent Orchestration
Infrastructure: Azure DevOps, Google Cloud Platform, Kubernetes, Docker

Projects

Foundly (AI/Full Stack) | *Python, LangGraph, LangChain, LangSmith, Next.js, PostgreSQL* — Website

- Built an **AI-powered cofounder matching platform** that finds compatible cofounders, makes introductions, and arranges meetings entirely through text.
- Engineered AI agent workflows with tool calling, context engineering, and persistent memory; built LLM evaluation harnesses for prompt regression testing, structured output validation, and failure analysis.
- Launched the platform, attracting **300+ visitors**, **5+ users**, and **2 successful cofounder matches** in 3 days.

Book Quizzer (Full Stack) | *Next.js, TypeScript, Supabase, PostgreSQL* — Website

- Built a full-stack quiz app with in depth book questions and saved responses to help users retain nonfiction books.
- Leveraged **AI coding tools (Cursor/Codex/Claude Code)** to build and ship an MVP in 5 days.
- Implemented **Google OAuth** and deployed the app to **Vercel**, enabling a secure sign-in flow.

Book Store (Full Stack) | *MongoDB, React, Express, Node* — Source Code

- Developed full-stack app with React & Express that allows users to create, update & delete books.
- Integrated MongoDB and used Mongoose to define data models and a schema to store book information efficiently.
- Leveraged Tailwind for a responsive UI and Axios for data fetching with a Node back end.