Abishek Devendran

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Chennai, Tamil Nadu, India

https://www.linkedin.com/in/abishekdevendran   https://github.com/abishekdevendran

Skills

languages: Javascript, Typescript, Python, C/C++, SQL
libraries: ReactJS, Pandas, SciKitLearn, Framer Motion, Socket.io, Zod
frameworks: NextJS, TailwindCSS, ExpressJS, Sveltekit
software: Blender3D, Figma, Postman, Neo4J
misc: CI/CD, Time Management, Git/Github, SEO

Experience

Randomwalk.AI   Chennai, Tamil Nadu
Junior Software Engineer   01/2024 - Present

- Built an LLM based orchestration pipeline using bleeding edge technologies like Langgraph and LlamaIndex using FAISS, Pinecone and Neo4J for semantic vector embeddings and indexing, Postgres for user data, SQLite for in-memory ondemand data processing, and Redis for caching responses.

- Built various iterations of this project for various customer requirements and use-cases, from strictly structured data to ambiguously semi-structured data.

- As a bilevel optimization problem between response times+token usage vs response quality, the final DAG nodes were optimized to deliver results within 5 seconds, with >95% precision and recall.

- Worked on a multitude of stacks including but not limited to React+NextJS, Svelte+Kit, FastAPI, Flask, Hono, Python, NodeJS, Typescript, Postgres, Langchain(both Py and TS), IPYNB, Tesseract OCR, Neo4J for KGs, docker-compose for microservices, Github Actions for CI/CD, etc.

OruPhones   Alwar, Rajasthan
Full Stack Development Intern   05/2023 - 11/2023

- Pioneered incremental upgrades to cutting-edge technologies, ensuring seamless integration and error-free operation

- Transformed Core Web Vitals, achieving all greens and boosting performance by approximately 25% across the board.

- Revamped codebase to bolster security and performance, resulting in a 50% reduction in JS client bundle size and 40% faster server API response time.

- Achieved 100% server uptime through flawless error handling and adoption of cookie and Redis session-based authentication.

- Spearheaded the adoption of TypeScript and Zod validation, fortifying backend and frontend security

- Improved Developer Experience (DX) with a streamlined file structure and increased TypeScript integration (backend 20%, frontend 45%).

- Led a small team of frontend engineers to rebuild the frontend from scratch, including payment functionality and accessibility audits.

Projects

LL(1)/LR Parsers
Coursework in advanced C.
Tech Stack:

Chain Reaction Multiplayer

Using web sockets and vanilla SPA ReactJS hosted on an ExpressJS server to make a multiplayer online board game.

Tech Stack: web sockets, ReactJS, ExpressJS

Human Activity Recognition with Smartphones

EDA and Comparative model analysis after Data Cleaning and Reduction steps.
Tech Stack:

IoT Mining Helmet

Product Design project involving incorporating smart dynamic sensor nodes as part of a mesh network with MQTT pub/sub support. Prototyped with Arduino and ESP01S.

Tech Stack: MQTT, Arduino, ESP01S

Education

Indian Institute of Information Technology, D&M.   Chennai, Tamil Nadu
B.Tech in Computer Science and Engineering   06/2024
CGPA : 8.1

No. 8, 43rd Street
Sarvamangala Colony, Ashok Nagar
Chennai - 600083

2nd Sep 2024

The Hiring Manager
XYZ Company
No. 12, 45th Street
Sarvamangala Colony, Ashok Nagar
Chennai - 600083

Dear Hiring Manager,

lorem ipsum

Thank you for considering my application. I look forward to hearing from you soon.

Sincerely,