

Abishek Devendran

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Summary

Highly motivated and skilled **full-stack software engineer** with experience in building LLM-based orchestration pipelines and optimizing web application performance. Proven ability to rapidly develop and deploy innovative solutions while maintaining high quality and security.

Skills

- **Languages:** TypeScript, JavaScript, Python, SQL, C/C++
- **Frameworks/Libraries:** ReactJS, NextJS, SvelteKit, Tailwind CSS, ExpressJS, Langchain (Py/TS), Zod, Pandas, SciKit-Learn, Framer Motion, Socket.io
- **Databases/Storage:** PostgreSQL, Redis, Neo4j, SQLite, FAISS, Pinecone
- **Software:** Blender3D, Figma, Postman, Docker, Git/GitHub, CI/CD, SEO

Experience

Randomwalk.AI | Chennai, Tamil Nadu

Junior Software Engineer Intern | 01/2024 - 06/2024

- Built an **LLM-based orchestration pipeline** using Langgraph, LlamaIndex, FAISS, Pinecone, Neo4j, Postgres, SQLite, and Redis.
- Developed iterations for various customer requirements with data ranging from structured to semi-structured.
- Optimized DAG nodes to deliver results within **5 seconds**, achieving **>95% precision and recall** in a bilevel optimization problem between response time and token usage vs. response quality.

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%**).

Projects

- **Streakify (Personal Project) (2025):**
 - Developed a **full-stack** habit tracking application using **SvelteKit**, **Tailwind CSS**, and **PostgreSQL**.
 - Implemented secure user authentication using Better Auth and **Redis** for session caching.
 - Engineered a responsive user interface with Shadcn-Svelte, optimized for both desktop and mobile devices.
 - Achieved a **90% cache hit rate** with **Redis**, resulting in a **30% reduction in API response times**.
 - Completed within **4 days** as a personal challenge, demonstrating rapid development skills.
- **Chain Reaction Multiplayer (2021):**
Developed a real-time multiplayer online board game using web sockets, vanilla SPA ReactJS, and an ExpressJS server.
- **Human Activity Recognition with Smartphones (2022):**
Performed exploratory data analysis, cleaning, reduction, and comparative model analysis.
- **IoT Mining Helmet:**
Designed a smart dynamic sensor node mesh network with MQTT pub/sub support. Prototyped with Arduino and ESP01S.

Education

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

Socials

- Github: <https://github.com/abishekdevendran>
- LinkedIn: <https://www.linkedin.com/in/abishekdevendran>