

# Abishek Devendran

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## Skills

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- **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

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Randomwalk.AI | Chennai, Tamil Nadu

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

- 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 on-demand 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

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- **LL(1)/LR Parsers(2022):** Coursework in advanced C.
- **Chain Reaction Multiplayer(2021):** Using **web sockets** and vanilla SPA ReactJS hosted on an **ExpressJS** server to make a multiplayer online board game.
- **Human Activity Recognition with Smartphones(2022):** EDA and Comparative model analysis after Data Cleaning and Reduction steps.
- **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**.

## Education

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Indian Institute of Information Technology, D&M. | Chennai, Tamil Nadu

B.Tech, Computer Science. | 06/2024

CGPA : 8.1

## Socials

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