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Aryan Kathawale

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TECHNICAL SKILLS

Languages: Typescript, Javascript, HTML/CSS, Go, C, Python, SQL, Gleam.
Frameworks: Next.js, Jest/Puppeteer, Angular, Vue, Jquery, React Native, Expo, Nest.js, Fastify, Hono, Express.
Developer Tools: Git, Node.js, Tailwind CSS, Figma, Deno, Bun, Docker, Rabbit MQ, Kafka, GCP, AWS, Cloudflare, Jira, LLMs.
Libraries: React, Tensorflow, Pytorch, , Redux, Graphql, HTMX, Effects
Database: PostgreSQL, Prisma, Drizzle Non-relational: MongoDB, Redis, Sqlite.
Focus on : Frontend Design, UI /UX, Animation, Refactoring, Optimization, Complexity Compression, System Architecture.

EDUCATION

Sinhgad College Of Engineering	Pune, Maharashtra
Bachelor of Engineering in Computer Science, Major in Machine Learning, 7.64 GPA	*Jan. 2021 – Aug 2024*

EXPERIENCE

Principal Engineer	Aug 2024 – Present
AxiaNext.LLC	*Kyoto, Japan*

- Architected and implemented a sophisticated web scraping engine using **Puppeteer and TypeScript**, enabling automated data extraction from multiple sources with 99% accuracy and 70% reduction in manual effort.
- Developed an advanced semantic search functionality leveraging **TypeScript, Elasticsearch, and TensorFlow.js** that improved search relevancy by 85% and reduced query latency by 60%.
- Established robust frontend architecture patterns using **TypeScript, React Query, Zod and Zustand**, implementing a component library that accelerated UI development by 50% while ensuring type safety across the application.

Software Engineer II	Jan 2023 – June 2024
Born Agile AI.	*Hungary (remote)*

- Led the development team of 3 and implementation of the Proof of Concept and engineered ML models utilizing **Langchain, Vector Db, and Next.js**, resulting in a scalable architecture with **10x returns**. Supervising the construction of custom **RAG and Streaming API.**
- Set up authentication via OAuth and email pipeline, Streamlined and 40% faster. Used Next-Auth, React-email, and Nodemailer for SMTP requests. **Saving $1200 per month.**

Backend engineer	May 2021 – Oct 2022
Yottalligent	*Mumbai/Remote, India*

- Refactored code from **GraphQL to TRPC** in production, optimized JavaScript with promises, and improved microservice compile times, rewriting some in Go by 25%. Deployed on Serverless for enhanced efficiency.
- We successfully deployed the API code to **Cloudflare workers**, resulting in a **400 % cost reduction** using the Wrangler CLI. Moving to an **Event Driven Design** Pattern instead of a Monolith.

PROJECTS

Vscode Animation Extension | *Webpack, Typescript, Sass, Node, Vsx, Apc Custom UI*	Jan 2025 – Jan 2025

- Implemented a VSCode extension that brings smooth animations to VSCode.
- Leveraged Apc Custom UI++ library to inject custom CSS into VSCode.
- Demonstrated Webpack orchestration skills and software quality.

Pic-thing | *TypeScript, Image Processing, UI*	Apr 2025 – May 2025

- Developed an experimental image processing and manipulation tool for the web.
- Implemented features for uploading, editing, and transforming images with a focus on performance and user experience.

- Open-sourced the project to encourage community contributions and creative extensions.

Blank Cache | *Typescript,Deno,Effect,jsr*   Jan 2025 – Mar 2025
- Caching library
- Implemented a caching library
- Implemented LRU , LFU , FIFO , EXPIRE type of cache that works on every runtime

Blank Theme (Cursor Theme Extension) | *Lua, Theme Development, Cursor*   Apr 2024 – May 2024
- Developed a minimal and highly customizable cursor theme extension called "Blank Theme" for the Cursor editor.
- Focused on clean design, accessibility, and easy user customization.
- Open-sourced the project to enable community-driven enhancements and theming.

URL Shortner in Deno | *Deno, OAuth, Redis, Sqlite, Docker, Preact, Bash, Hono.js*   Jul 2024 – Sept 2024
- Developed a URL shortener without using any external dependencies, utilizing native Deno APIs.
- Leveraged Sqlite as a KV data store for OAuth and user credentials.
- Rewrote React rendering logic to generate static site generation, tightly coupling backend and frontend.
- Installed no npm modules for React, database ORM, or authentication, making the project platform agnostic.

GIGI: Git Implementation in Go | *GoLang, MakeFile, Charm CLI Library*   Jan 2024 – Mar 2025
- Implemented a software version management system similar to Git.
- Solved compilation and system design problems for Linux, Windows, and Mac.
- Demonstrated Go and low-level system design expertise.

Drawy | *Next, Typescript, LLM, Streaming, Excalidraw API, Fal.AI*   Sept 2024 – Nov 2024
- Developed a real-time image-generating application that uses rough sketches by the user to generate accurate images based on user requirements.
- Used Fal.AI and Excalidraw to stream images based on real-time sketches or illustrations.
- Innovative research and experimentation.

Zebra Crossing | *Deno, Typescript, JSR, Hono.js*   Jan 2024 – Jul 2024
- Rate limit middleware written in Typescript for Hono.js.
- Deployed on JSR as a middleware to handle rate limiting.