Dipesh Singnurkar

Bachelor of Technology
Computer Science and Engineering
[Portfolio]

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EDUCATION

- **Indian Institute of Information Technology, Nagpur** *2022–2026*
  Bachelor of Technology in Computer Science and Engineering

SKILLS

- **Languages**: C/C++, Python, JavaScript, Typescript, Golang and HTML/CSS.
- **Frameworks**: NextJS, ReactJS, ExpressJS, NodeJS, Tailwindcss, SQL, PostgreSQL, Pandas, NumPy, FastAPI, Matplotlib, Django, Flask, Redis
- **Tools**: Drizzle, Prisma, MongoDB, PineconeDB, Docker SupaBase, OpenAI API and Clerk

EXPERIENCE

- **Software Developer Intern — Durvah IT** *May 2024 – Jul 2024*
  Stack: ReactJS, ExpressJS, PostgreSQL, python
  ◦ Developed an internal AI-powered meeting summarizer tool that transcribed audio into timestamped text using Hugging Face's **Whisper-large v2** model, storing outputs in organized text files.
  ◦ Designed and integrated a **Salesforce-compatible API** to automate the upload of transcribed files and trigger email notifications to designated recipients.

PROJECTS

- **Swiftly : URL Shortener** [Github] | [Link] *May 2025 - July-2025*
  Stack: Golang, Next.js, Typescript
  ◦ Implemented a URL shortening service with RESTful APIs, generating unique hash-based keys for links and enabling fast redirection via in-memory and Redis-backed lookups.
  ◦ Structured backend into modular packages (models, storage, handlers, utils) with dependency injection, supporting seamless switch between Redis and in-memory storage layers.
  ◦ Built an HTTP server in Go with concurrent request handling through goroutines, centralized error responses, and Redis integration for persistent, high-performance caching.

- **Drawloop: Sketch it. Share it. Shape it.** [Link] *Feb 2025 - Apr-2025*
  Stack: Next.js, TypeScript, PostgreSQL17, Node.js, Websockets, ShadCN
  ◦ Engineered a real-time collaborative drawing application using Next.js and TypeScript, enabling up to 500 concurrent users to create, edit, and share sketches seamlessly within a streamlined interface.
  ◦ Implemented WebSocket-based 2-way communication for instant updates, ensuring low-latency synchronization of sketches across all connected clients.
  ◦ Architected a lightweight and type-safe data layer using PostgreSQL-17 with Drizzle ORM as the provider, enabling efficient and reliable persistence of user-generated drawings.

- **PromptPDF: Interactive PDF chat-assistant using RAG technology** [Link] *Dec 2024 – Feb 2025*
  Stack: Next.js, PostgreSQL, OpenAI, AWS S3, PineconeDB,ShadCN
  ◦ Developed an AI-powered PDF chatbot platform using Next.js 15, DrizzleORM, and OpenAI, allowing users to interact with PDF content through natural language queries in real time.
  ◦ Integrated Retrieval-Augmented Generation (RAG) by embedding PDF content into vector space and querying via PineconeDB, delivering fast and context-aware responses.
  ◦ Integrated secure file handling via AWS S3, user authentication through Clerk, built an intuitive chat UI prioritizing accessibility and responsiveness using ShadCN UI components for a polished user experience.

VOLUNTEER EXPERIENCE

  ∗ **Coordinator of University Coding Club (Dotslash)**
  ∗ Led a 20+ member team to organize and execute DotSlash Winter of Code 2024, mentoring 50+ students through regular doubt-solving and project guidance.