Harsh M. Duche

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EDUCATION

Savitribai Phule University   **Pune,Maharashtra**
B.E in Computer Science (9.05/10 SGPA)   *Expected Graduation, May 2026*
- o   **Related Coursework:** Data Structures & Algorithms, Operating Systems, C++ & Java, Web Development, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Python, MySQL ,DBMS

PROJECTS

Youtubed   **Repo Link | Live**
Founder & Developer   *Jan 2024 – Feb 2024*
- Developed a **Next.js Application** which transforms random playlists into structured courses with progress tracking to keep you motivated. Take smart, time-stamped notes with an advanced rich text editor. And with our **AI-powered learning assistant**, unlock the full potential of YouTube
- Submitted this project for Buildspace s5 got **100+ sign ups** for getting waitlisted with **1.5k+ reactions**
- Used Nextjs, Tailwind CSS, Postgresql DB , Docker, Turborepo ,NextAuth, Youtube Data API, REST APIs, Langchain, GeminiAPI for chatbot implementation

theWallet   **Repo Link** | Live
Side Project   *Jun 24*
- A simple wallet application for third party / peer to peer transactions which also allows users to onRamp transactions
- Designed and Developed a **complex backend architecture** in a monorepo having two express backends (one webhook handler) and a Next.js Frontend with few next API routes
- Implemented a **CI/CD** pipeline for the same which containerised the repo and deploy it to an AWS EC2 instance

Minimalist Blogs   **Repo Link | Live**
Side Project   *Nov 23*
- Built a minimalist blogging **React.js** based web application , with a **serverless architecture** based on **cloudflare**
- Used **Hono web app framework** for backend and Prisma accelerate **connection pool** for designing this serverless architecture

ACTIVITIES AND LEADERSHIP

SIH Winner 2023   **Hyderabad, India**
Team Leader (Coders Crew 2)[Project Management]   *Aug 2023*
- Leader of a national level hackathon winning team, which got selected from over **243 teams across the nation** and won the Hackathon (Smart India Hackathon 2023)
- Developed a **web & android application** for Jal Shakti Ministry which helps to measure the Water footprints, created an interactive user-friendly web application with **RAG AI bot** and Questionnaires for data acquisitions along with a android application which used **tf-lite object detection model** for detecting and determining water footprints

DSA BOOTCAMP (GDSC)   **Pune, Maharashtra**
Mentor (Developers Team)   *Aug 2023*
- Conducted DSA live sessions and taught over **70+ students** OOP and DSA concepts **live** and got rating of **4.5/5** as feedback from the students

SKILLS

Programming: Javascript, TypeScript, React.js , Next.js, Tailwind CSS, Hono, Prisma ORM, Express.js, Node.js, PostgreSQL, MongoDB, Docker, AWS, (Back End), Git, Github, HTML/CSS, SQL, Node.js, YAML, Turborepo(monorepos), Langchain, Front End, Web Design, Back End Programming, Designing Front End, Developing APIs, JavaScript Frameworks, Programming Languages, Web Architecture, PHP, Responsiveness, Organizational, Attention To Detail, Verbal Communication, Problem Solving, frontend, nextjs, shadcn

CERTIFICATIONS

I. 0-100 **Full Stack Web Development** Course (100x devs)   Certificate
II. Introduction to **TensorFlow** for **AI, ML, and Deep Learning** (DeepLearning.AI)   Certificate
III. **Generative AI** with Large Language Model (DeepLearning.AI)   Certificate
IV. Divide and Conquer, Sorting and Searching, and Randomized Algorithms (Stanford University)   Certificate