

Harsh

+91-80530-91785 | harshbn2004@gmail.com | linkedin.com/in/harsh-498-dahiya | portfolio-vs8v.vercel.app | Bengaluru, Karnataka, India

PROFESSIONAL SUMMARY

Associate Software Engineer Harsh with over 1 year of experience building AI-enabled products and workflows. Proficient in Python, JavaScript/TypeScript, and backend development with Node.js, Express.js, and FastAPI. Skilled in LLM integration, RAG, vector databases, and secure, scalable system design.

CORE COMPETENCIES

Python

JavaScript

TypeScript

Node.js

FastAPI

REST APIs

GraphQL

Databases

WORK EXPERIENCE

Oryx International Logistics Delhi, India Jan 2025 - Present

Associate Software Engineer

- Engineered secure, scalable backend services by implementing JWT-based authentication with role-based access control, ensuring least-privilege access.
- Optimized MongoDB aggregation pipelines for reporting, achieving a 35% reduction in query response times through strategic indexing.
- Containerized backend services using Docker and engineered GitHub Actions CI/CD pipelines, standardizing deployments across environments.
- Designed and deployed independently communicating backend microservices, applying principles for isolated domain responsibilities.
- Collaborated with cross-functional teams to integrate AI-assisted development tools, accelerating complex feature development cycles.

Ivory Communication Delhi, India Jun 2022 - Aug 2022

Web Developer Intern

- Engineered responsive React.js UI components, integrating with Node.js REST APIs to deliver polished frontend features.
- Developed and debugged lightweight web components, improving application performance and user experience across the platform.
- Collaborated with engineers to translate ambiguous requirements into clear, scalable technical solutions for web applications.

PROJECTS

PanScience Q&A - AI Document & Multimedia Intelligence

Tech: Python, FastAPI, LangChain, pgvector, PostgreSQL, Redis, Next.js, TypeScript, SSE Streaming, OpenAI GPT-4o, Whisper API, Docker Compose, Nginx, GitHub Actions CI/CD

Engineered a full-stack RAG platform for Q&A over documents using FastAPI, LangChain, and pgvector for retrieval, with GPT-4o streaming and citation. Architected Redis for rate limiting, chat history TTL, and caching, enhancing system performance and user session management.

AI-Powered Transaction Processing Pipeline

Tech: Python, FastAPI, Pydantic, Celery, Redis, PostgreSQL, SQLAlchemy, Pandas, Google Gemini 1.5 Flash API, Docker Compose, Alembic

Architected a containerized asynchronous transaction processing pipeline using FastAPI, Celery, and Redis, decoupling ingestion from computation. Designed a 5-stage Celery worker pipeline with Gemini batch calls and exponential backoff, improving processing efficiency and reliability.

FinStat Extractor - Internal Financial Research Portal

Tech: React, Vite, Tailwind CSS, FastAPI, Python, pdfplumber, Anthropic Claude API, openpyxl, Vercel, Render

Designed and deployed a financial statement extraction tool mapping line items from PDFs into structured Excel using FastAPI and Claude. Integrated pdfplumber for table mapping and an openpyxl engine, generating confidence metrics and audit trails for extracted data.

KYC Document Verification System

Tech: Python, Azure Computer Vision, Google Cloud Vision, OpenAI GPT-4, Anthropic Claude, OpenCV, Pillow

Engineered a KYC verification engine processing IDs and statements using Azure OCR and Google Cloud Vision for data extraction. Coded a cross-document validation engine verifying name, DOB, and address consistency using GPT-4 error correction.

SKILLS

LANGUAGES

Python, JavaScript, TypeScript, SQL, C++, HTML5, CSS3

FRONTEND

React.js, Next.js 14, Tailwind CSS, Zustand, TanStack Query, Framer Motion, React Native, Bootstrap

BACKEND

Node.js, Express.js, FastAPI, Flask, REST APIs, WebSockets, Socket.io, JWT Auth, RBAC, SSE Streaming, Celery

DATABASES

MongoDB, PostgreSQL, MySQL, Redis, Prisma ORM, Mongoose, SQLAlchemy 2, pgvector, Supabase

DEVOPS

Docker, Docker Compose, GitHub Actions CI/CD, AWS (Lambda), Linux, Nginx, Alembic, Vercel

AI & LLM

LangChain, RAG, pgvector, OpenAI GPT-4o, Anthropic Claude API, Google Gemini 1.5 Flash, Whisper API, Prompt Engineering

EDUCATION

B.Tech DCRUST, Murthal Graduated: 2025

CGPA: 7.4/10

CERTIFICATIONS

AWS Certified Cloud Practitioner	Udemy	2025	Full Stack Web Development (MERN Stack)	Coding Blocks	2024
Advanced SQL for Data Analytics	Udemy	2024	Data Structures & Algorithms in C++	Coding Blocks	2023
Hackathon Winner (FeedFlow Project)	Humanity Founder	2026			