

Dhruvin Vaghasiya

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SUMMARY

Full-stack developer and AI engineer, third-year Computer Engineering student (CGPA 8.48, first-year top ranker) at CSPIT, CHARUSAT. Builds products that work in production: a borrower-protection platform with Retrieval-Augmented Generation (RAG) at its core, a jewellery e-commerce store taking real orders, and a competitive programming judge that ran across 22 machines for 100+ participants. Open-source contributor to AI governance tooling with 5 merged pull requests. 217 LeetCode problems solved, NeuroX Hackathon Grand Finalist, Odoo X 2025 Top 250.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, TypeScript, SQL (PostgreSQL, Oracle), HTML/CSS

Frameworks & Libraries: Django, Django REST Framework, Node.js, Express.js, React.js, Next.js, FastAPI, Prisma, Drizzle ORM, REST APIs, JWT & OTP Auth

Data & Cloud: PostgreSQL, MongoDB, Redis, Docker, Vercel, Render, Railway, DigitalOcean

AI & LLMs: Retrieval-Augmented Generation (RAG), Large Language Model (LLM) Integration, Prompt Engineering, Natural Language Processing (NLP), OpenRouter, AWS Bedrock, Hugging Face, sentence-transformers, Scikit-learn, pgvector, YOLOv8, ONNX, TensorRT

AI Agents & Workflow: Cursor, GitHub Copilot, Claude & Claude CLI, Windsurf, MCP, Agent Skills & Plugins

Hardware & IoT: ESP32, Arduino IDE, RFID, Environmental sensors, Servo control

Tools & Practice: Git & GitHub, VS Code, Postman, PgAdmin, Jupyter / Colab, OOP, DBMS, DSA / CP

EXPERIENCE

AI Engineer Intern

Evodart – BeAwareOfBanks

May 2026 – Jun 2026

Gujarat, India

- Engineered LLM and RAG pipeline integrations for a live borrower-protection platform (beawareofbanks.com) processing 40–80 page loan documents, tuning retrieval context and model-security layers across a production Python and Node.js codebase
- Resolved production defects and coordinated sprint delivery through ClickUp for a platform in live beta serving real users

Backend Developer (Grand Finalist)

NeuroX Hackathon, Master's Union CDS Campus

Jun 2026

Gurugram, India

- Architected REST APIs, JWT authentication, and a PostgreSQL schema with Drizzle ORM for CodeArmor, an AI security scanner running 11 parallel agents across 40+ vulnerability categories, delivering a functional MVP in 10 days
- Implemented scan orchestration and a risk-scoring pipeline feeding filtered findings to both a VS Code extension and a role-managed web admin dashboard

Open Source Contributor

AegisAI – GitHub

May 2026

Remote

- Merged 5 pull requests into AegisAI, an open-source AI governance, risk, and compliance (AI-GRC) platform built on React, TypeScript, FastAPI, and PostgreSQL (PRs #163, #158, #157, #150, #146)
- Improved frontend components and user-experience flows across a live compliance product, working within an external maintainer's codebase conventions and CI pipeline

Freelance Full-Stack Developer

Ellips Diamond Jewellery

2025 – Present

Gujarat, India

- Developed a production e-commerce platform with a dynamic pricing engine recalculating product prices from live metal rates, mobile OTP authentication, and Razorpay/Stripe checkout with multi-currency support on Next.js and MongoDB
- Deployed admin tooling covering inventory management, order tracking, coupons, and sales analytics on DigitalOcean, processing real customer transactions

Internet of Things Intern (Part-time)

Launched Global

Jun 2025 – Aug 2025

Nadiad, Gujarat, India

- Applied IoT development practices across a 3-month part-time internship, gaining hands-on industry experience in hardware prototyping and delivery workflows

PROJECTS

CodeArmor MVP | *React, TypeScript, Node.js, Express.js, PostgreSQL, Drizzle ORM, JWT, VS Code API*

2026

- Orchestrated 11 parallel AI scanning agents across 40+ vulnerability categories with an ArmorClaw validation filter and a risk-scoring pipeline feeding both a VS Code extension and a web admin dashboard
- Designed the full backend stack including REST APIs, JWT authentication, PostgreSQL schema with Drizzle ORM, and scan orchestration logic in a 10-day hackathon sprint

AegisAI (Open Source) | *React, TypeScript, FastAPI, Python, PostgreSQL, Docker*

2026

- Contributed 5 merged pull requests enhancing frontend components and user-experience flows for an AI governance, risk, and compliance platform used in production

BeAwareOfBanks | *LLM Integration, RAG, AI Pipelines, Python, Node.js, Document Analysis*

2026

- Strengthened RAG retrieval across 40–80 page loan agreements by refining context-window selection and clause extraction for a borrower-protection platform live at beawareofbanks.com
- Supported the Guardian Advisor chatbot feature, enabling borrowers to ask questions about their own uploaded agreements with source-grounded answers

Supernova CP Engine | *Node.js, React, PostgreSQL, Redis, Docker, GCC, k6*

Mar 2026

- Built a distributed competitive programming judge across 22 lab PCs sustaining approximately 3,000–4,000 req/sec (k6), splitting architecture into a main server, Redis node, PostgreSQL node, and compile workers
- Crafted submission execution enforcing time and memory constraints with millisecond verdicts for 100+ concurrent participants across 3 competition rounds

Clara – Documentation Assistant | *Django, DRF, PostgreSQL, pgvector, React, TypeScript, Qwen 2.5-7B, HF, Redis*

2025 – 2026

- Constructed a RAG pipeline with intent detection, cosine-similarity retrieval from pgvector, and grounded generation through Qwen 2.5-7B-Instruct, producing source-cited answers from official documentation
- Scaled from 2 indexed languages to any documentation source by building an admin web crawler that strips, embeds, and stores vectors in PostgreSQL automatically

Ellips Diamond Jewellery | *Next.js, TypeScript, Node.js, Express.js, MongoDB, Razorpay, Stripe, DigitalOcean*

2025 – Present

- Created a production e-commerce platform with a pricing engine tied to live metal rates, OTP login, Razorpay/Stripe checkout, and admin tooling for inventory, orders, coupons, and analytics
- Shipped to DigitalOcean and the platform is taking real orders with a custom domain in progress

Smart Restaurant POS <i>React, TypeScript, Node.js, Express.js, PostgreSQL, Redis, Socket.io, Prisma, Docker</i>	Jan 2026
Produced a multi-branch POS supporting 5 user roles, QR table ordering, a real-time Kitchen Display System over WebSockets, Razorpay/Stripe/UPI payments with split billing, and offline-mode sync on reconnect	
AI Product Content Generator <i>Node.js, Hugging Face Inference API, Qwen 2.5-14B-Instruct, Zod, Jest</i>	2025 – 2026
Packaged a Node.js library generating SEO product content through a prompt pipeline with quality scoring, Zod validation, exponential-backoff retries, and a full Jest test suite	
Grain Guard <i>IoT, Website Dashboard, Prediction Analytics</i>	2025 – 2026
Streamed grain safety parameters from IoT sensors to a web dashboard with prediction insights and measurement reports for warehouse operators to act on before spoilage	
Dayflow HRMS <i>React, TypeScript, Node.js, Express.js, PostgreSQL, Neon, JWT</i>	Oct 2025
Delivered a role-based HR management system with admin and employee dashboards, email OTP plus JWT authentication, attendance tracking, leave workflows, and payroll visibility	
Movie Recommender System <i>Python, Streamlit, Pandas, NumPy, Scikit-learn, NLTK</i>	Sep 2025 – Oct 2025
Introduced Euclidean-distance similarity from the underlying math alongside cosine scoring, enabling comparative recommendation analysis over the TMDb 5,000 dataset with NLTK preprocessing	
NodeMCU DHT11 HTTP Telemetry <i>NodeMCU (ESP8266), Arduino IDE, DHT11, C++, HTTP POST</i>	Sep 2025
Programmed ESP8266 firmware to read DHT11 temperature and humidity and HTTP POST readings to a hosted server persisting each data point in a database	
GearGuard Maintenance <i>React, TypeScript, Redux Toolkit, Material-UI, Express.js, Prisma, Neon PostgreSQL</i>	2025
Established a maintenance management system with equipment registry, request tracking, teams, and work centers on a React TypeScript SPA with a Prisma and Express API	
Electronic Voting Machine <i>ESP32, MFRC522 RFID, Arduino IDE, Node.js, React</i>	2025
Wired an MFRC522 RFID reader to an ESP32 with 4 candidate buttons, LEDs, and a buzzer, connected to a Node server and React dashboard showing real-time vote counts – recognized in the Top 5 for transparent design	
Onion Storage Health Monitor <i>ESP32, BME280, Gas sensors, React.js, Node.js, PostgreSQL, Scikit-learn</i>	2025
Trained a Scikit-learn model predicting remaining shelf life from ESP32 sensor readings (temperature, humidity, spoilage gases) streamed to a web dashboard for farmer decision-making	
C Titan Bingo Platform <i>Node.js, React, PostgreSQL</i>	Oct 2025
Assembled a live Bingo platform with player sessions, round progression, and scoreboards serving 100+ concurrent participants across 3 rounds at the C Titan university event	
Taskflow <i>React, Vite, Node.js, Express.js, MongoDB, JWT, Vercel</i>	2025
Launched a MERN task tracker with JWT authentication, full CRUD, filters, and a contribution-style heatmap of completed work, deployed live on Vercel with MongoDB Atlas	
CareerVerse <i>React.js, Node.js, LLM Integration, REST APIs</i>	2025
Generated personalized career guidance through an LLM-backed conversational advisor that maps student interests and strengths to concrete career paths and actionable first steps	

ESP32 Home Automation Projects | *ESP32, Arduino IDE, PlatformIO, DHT11, RFID, Gas/PIR/Rain sensors* 2024

- Configured 10 self-contained IoT builds on the ESP32 covering remote control, environmental monitoring, home security, safety alerts, gardening, parking, and RFID access

Smart Reminder | *React.js, Express.js, PostgreSQL, Neon, Render, Vercel* 2024

- Pioneered personal deployment practices by shipping a task and deadline tracker across Vercel, Render, and Neon PostgreSQL as a first project taken from localhost to a live URL

ReWear | *React.js, Node.js, Express.js, MongoDB* 2024

- Modeled a community garment-exchange platform where users list, browse, and arrange clothing swaps with no payment layer, on React, Node, and MongoDB

EDUCATION

B.Tech in Computer Engineering 2024 – Present
Chandubhai S. Patel Institute of Technology (CSPIT), CHARUSAT University Gujarat, India

- CGPA: **8.48** | Third year | First-year **top ranker** with **2 Top Ranker awards** (CHARUSAT University and Devang Mehta Foundation Trust)
- Focus areas: full-stack development, LLMs and RAG, machine learning, and IoT

12th Standard, Science 2024
Ashadeep IIT Gujarat, India

- Science stream percentile: **91.52** | GUJCET percentile: **89.33** | JEE percentile: **92.74**

10th Standard 2022
Ashadeep Vidhyalay 1 Gujarat, India

- Completed with **92.91 percentile**

ACHIEVEMENTS

- Qualified as **Grand Finalist** at NeuroX Hackathon 2026 at Master's Union CDS Campus, Gurugram
- Secured **1st rank** in first-year B.Tech Computer Engineering; received two certificates: one from **CHARUSAT University** and one from **Devang Mehta Foundation Trust**
- Contributed **5 merged pull requests** to AegisAI, an open-source AI governance platform (PRs #163, #158, #157, #150, #146)
- Solved **217 LeetCode** problems; earned HackerRank badges in Problem Solving, C++, C, and 30 Days of Code
- Qualified in **Odoo X 2025** under **Top 250** among 19,000+ teams
- Secured **3rd place** at HackTrack 2026
- Won **3rd position** in C Quest (INR 5,000) and qualified in RoboFest 5.0 up to Level-II Proof of Concept (INR 50,000 support)

LEADERSHIP & EVENTS

Event Coordinator & Full-Stack Developer, Supernova

Mar 2026

C++ Competitive Programming Event

CHARUSAT University

- Led a 3-round gamified coding event for 100+ participants across departments, managing cross-team coordination while building and operating the distributed judge platform

Event Coordinator & Full-Stack Developer, C Titan

Oct 2025

Battle for Beginners

CHARUSAT University

- Coordinated event planning and participant operations while building the Bingo platform that 100+ participants competed on across 3 rounds

Event Coordinator & Technical Speaker

Jul 2025

Commencement Program, 2025 First Year Batch

CHARUSAT University

- Delivered a LinkedIn orientation session and organized onboarding activities for the incoming batch, introducing professional networking and technical tools