Aman Patre

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Education

VIT Bhopal University — Bhopal, MP
B.Tech in Computer Science and Engineering; CGPA: 8.7/10 — *Sep 2023 – May 2027*

Experience

Backend Intern — Remote
PearlThoughts — *Nov 2025 – Jan 2026*

- Built scalable **serverless REST APIs** for the Schedula healthcare platform using **NestJS**, **Express.js**, **PostgreSQL**, and **TypeScript**, enabling robust appointment data management
- Optimized **Sequelize ORM** queries and refactored **IVR** appointment workflows, improving query performance by **20%** and reducing validation inconsistencies across services

Projects

DataGuardian | *React.js, Express.js, Chrome APIs, Gemini API, MongoDB, D3.js* | Link — *Sep 2025 – Oct 2025*

- Developed an **AI-powered extension** detecting third-party trackers in real time across **50+ analyzed sites**
- Integrated **Gemini API** to summarize privacy policies, improving user understanding by **80%**
- Crafted **privacy scoring system (A+ to F)** with **D3.js visualization** for real-time tracker data flow
- Enabled **multi-mode protection** with site-based preference persistence via **chrome.storage.local**

Synapse | *Next.js, Gemini AI, GitHub/YouTube/Google CSE APIs, Redis, MongoDB* | Link — *Dec 2025 – Jan 2026*

- Designed **Smart Resource Aggregator** auto-curating resources for **50+ users**, streamlining learning
- Engineered **Trend Analytics Engine** using **GitHub** & **YouTube** metrics, cutting API latency **40%** via **Redis**
- Launched **AI Roadmap Generator** with personalized career paths and **role-based skill mapping**
- Implemented interactive data visualizations for **effort vs reward** analysis, enabling data-driven career decisions

Spotlight | *Next.js, Stream.io, VAPI AI, Razorpay, Inngest, PostgreSQL, Prisma* | Link — *May 2026 – June 2026*

- Shipped an AI-powered sales webinar SaaS on **WebRTC/SFU** via Stream.io with **sub-100ms** CTA delivery
- Introduced **VAPI AI** voice rooms for 1-on-1 attendee calls with **STT → LLM → TTS** latency under **400ms**
- Automated **Gemini + Inngest** post-webinar lead scoring with AI debrief email dispatch via **Resend**
- Secured **Razorpay** payments with **HMAC-SHA256** webhook verification and idempotent processing

Achievements

3rd Place Winner – IdeaForge Hackathon (Mozilla Firefox Club, VIT Bhopal) — *Nov 2024*

- Created Mozilla Firefox's browser history **UI/UX** in **24 hours**, competing among **50+ teams**

Top 20 Finalist – CodeForge'25 (WebForge Community) — *Apr 2025*

- Reached the finale at **Microsoft's Gurugram office** among **700+ teams** with an **ML-based** traffic system

Global Rank 3545 – TCS CodeVita Season 13 — *May 2026*

- Ranked in top tier among **100,000+** participants in one of the world's largest coding competitions

Technical Skills

Languages: JavaScript, TypeScript, C++, SQL, Java
Frameworks/Libraries: React.js, Next.js, Tailwind CSS, Node.js, Express.js, NestJS, Socket.io, Prisma
AI/ML: Gemini API, LLM Integration, Voice AI (VAPI), Prompt Engineering
Developer Tools: Git, GitHub, Postman, Vercel, Render
Databases: MongoDB, PostgreSQL, Redis
DSA: Solved **400+ problems** across LeetCode and other platforms

Extracurricular Activities

Web Team Core Member – AI Club

- Maintained the AI Club's website and contributed to event registration and workshop management interfaces

Contributor – GSSoC (GirlScript Summer of Code)

- Drove contributions across **7+ open-source projects** with bug fixes, feature enhancements, and optimizations

Certifications

AWS Certified Solutions Architect - Associate – AWS
Introduction to Machine Learning – NPTEL
Programming in Java – Vityarthi
Google IT Support – Google
Bits and Bytes of Computer Networking – Google
MongoDB Developer's Toolkit – GeeksforGeeks
Postman API Fundamentals Student Expert – Postman
Marketing Analytics – NPTEL