Aman Verma



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EDUCATION

Jaypee Institute of Information Technology — Noida, India

B.Tech. in ECE with specialization in Computer Science (ECE-CS) — *2023 – 2027* — ***CGPA: 8.6/10***

Relevant Coursework: Data Structures & Algorithms (DSA), Database Management Systems (DBMS), Object-Oriented Programming (OOP), Computer Networks & Security (CNS), Cloud Computing

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, JavaScript, TypeScript, PHP

Backend & APIs: Node.js, Express.js, FastAPI, Flask, WebSockets (Socket.IO), JSON Web Tokens (JWT)

Frontend & Mobile: React.js, Next.js, Flutter, Tailwind CSS, HTML5, CSS3

AI & ML: Machine Learning (Scikit-Learn), Computer Vision (OpenCV, YOLOv5), Natural Language Processing (spaCy), Generative AI (LangChain)

Databases, Cloud & Tools: PostgreSQL, MongoDB Atlas, Amazon Web Services (AWS), Docker, Git/GitHub, Linux, Continuous Integration/Continuous Deployment (CI/CD), Postman, PHPUnit

EXPERIENCE

DigiFlute Media Lab — Remote

Backend Developer Intern — *May 2026 – Jul 2026*

- Engineered **20+ RESTful API endpoints** in **PHP** and **MongoDB Atlas** for Packspec, a packaging specification platform, designing document schemas and a modular middleware routing layer in an **Agile** team of 8.
- Implemented **JWT authentication** and **RBAC across 5 role tiers** for a **multi-tenant platform**, enforcing company-scoped data isolation in middleware, along with invite-based onboarding and plan-based quota limits.
- Designed **workflow-state transitions, revision versioning, and cascading soft-deletes** so every spec change stays auditable and recoverable; tested APIs with **Postman** collections and **PHPUnit** suites.

PROJECTS

SahYatri | Fleet Analytics & Telemetry Platform – *IoT, YOLOv5, Node.js, PostgreSQL* GitHub

- Developed a passenger-counting pipeline using a **Raspberry Pi 4** for image capture and a **FastAPI** service running **YOLOv5** to detect passengers, estimate occupancy, and trigger overcapacity alerts.
- Built a **Node.js & PostgreSQL** backend ingesting vehicle occupancy and GPS telemetry via REST endpoints, storing time-stamped readings and serving vehicle load and location data to a **React.js** operator dashboard.

Chessify AI | Real-Time Multiplayer Chess – *Next.js, Node.js, Socket.IO, Flask* GitHub

- Built a full-stack multiplayer platform with a **Node.js & Socket.IO** real-time server supporting game rooms, spectator mode, board-state synchronization, and **server-side move validation** to reject illegal moves.
- Integrated a decoupled **Flask REST microservice** using a Polyglot opening book and **Stockfish capped at ELO 1800**, falling back to custom **Minimax with alpha-beta pruning** (depth 3) when the engine is unavailable.

StudySync | Offline-First Timetable & Calendar App – *Flutter, Express, MongoDB* GitHub

- Developed a timetable and academic-calendar application targeting **Android, iOS, and web** from a single **Flutter** codebase, maintained across **3 tagged releases** and used by university students for schedule management.
- Implemented **cache-first schedule loading** to display saved timetables without a network and refresh when online, backed by an **Express + MongoDB** REST API and authenticated admin portal for schedule updates.

ACHIEVEMENTS & CERTIFICATIONS

- **LeetCode Knight (Peak Rating: 2094)** — Ranked in the top 2.5% globally; solved **1000+ Data Structures and Algorithms problems** with a **250-day algorithmic streak** across LeetCode, Codeforces, and GFG.
- **Won 1st Prize, BITBOX 5.0 (Rs. 20,000)** — Spearheaded backend telemetry for **SahYatri** among 50+ teams; first-author research paper on edge transit analytics under review at **IEEE DELCON 2026**. Certificate
- **Finalist, Innovate 3.0 Hackathon** (Jan 2026) — Selected among top national finalists for **Drive-Sure**, architecting end-to-end telematics ingestion and predictive risk evaluation services. Certificate
- **Certifications:** Cloud Computing (**AWS & Virtualization**), CDAC Noida | **Data Modeling**, MongoDB.
- Awarded **Letter of Appreciation** from JIIT for outstanding academic performance in core computing disciplines.