

Aadarsh Verma

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EDUCATION

Chitkara University

Bachelor of Engineering in Computer Science | CGPA: 9.42

Punjab, India

August 2024 – December 2025

EXPERIENCE

Software Development Engineer

December 2025 – June 2026

BitwiseLearn

Remote

- Engineered backend services for a recommendation platform using Neo4j, implementing relationship-based queries that **improved recommendation relevance by 25–30%** across thousands of connected nodes.
- Architected and implemented **30–35 RESTful API endpoints using Express.js**, and integrated **file upload functionality with AWS S3**, improving backend modularity and service integration.
- Developed a LeetCode-style coding assessment module supporting **hundreds of concurrent test attempts** with end-to-end submission handling.
- Built an API gateway with a forward proxy to route requests across **multiple backend services**, improving system modularity and maintainability.

PROJECTS

Persephone – Technical Interview Platform | *Next.js, Express.js, Redis, Prisma, Neo4j, Docker*

- Created a full-stack hiring platform for **candidate discovery, interview scheduling, and assessments** with secure auth and **RBAC across 3 roles**.
- Engineered a **Neo4j graph-based recommendation engine** to match candidates with jobs and projects using relationship queries.
- Integrated **real-time 1-to-1 interview rooms using Agora API** enabling low-latency live coding interviews and evaluations.

BitwiseLearn – Institution Management Platform | *Next.js, Express.js, MongoDB, Prisma, Docker*

- Created a centralized platform for **institutions, instructors, and students** with **RBAC across 5+ roles**.
- Programmed **35+ RESTful APIs** using a modular **controller–service architecture** improving maintainability.
- Optimized DB performance using **MongoDB indexing and Prisma ORM**, reducing API response time by **35%**.
- Implemented backend workflows for **course management, assessments, and student progress tracking**.

Trackio – Productivity & Tracking Dashboard | *React.js, Express.js, MongoDB, Three.js*

- Led a **team of 4 developers**, overseeing **task distribution, code integration**, and collaborative development to ensure timely and efficient project delivery.
- Built a full-stack productivity dashboard for **task management, progress tracking, and productivity analytics**.
- Implemented backend APIs using **Node.js and Express** supporting scalable CRUD operations.
- Designed **3D visualizations using Three.js and Vanta.js** to create an interactive UI experience.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java

Backend: Node.js, Express.js, REST APIs, API Gateway

Frontend: React.js, Next.js, TailwindCSS

Databases: MongoDB, MySQL, Neo4j, Redis

Tools: Git, Prisma ORM, Linux

HONORS

- Semi-finalist at **Tata Imagination Challenge 2025** with a live ranking of 5.
- Contributed to **GirlScript Summer of Code**.
- Solved **360+ algorithmic problems**, across **Leetcode and TakeUForward**, focusing on data structures and algorithms.