

KUSHAGRA SINGH TOMAR

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B.Tech CSIT (2028) with daily Java + data-structures practice (~200 LeetCode problems in Java), three deployed full-stack applications, and Microsoft AZ-104 certification. Building production-style Java backends: Jakarta EE (Servlets/JSP/JDBC) today, Spring Boot (JPA, Security) in progress. Seeking a Java/backend development internship.

TECHNICAL SKILLS

Languages: Java, SQL, JavaScript/TypeScript, Python, C, C++

Backend: REST API design, Spring Boot (in progress — JPA, Security), Jakarta EE (Servlets/JSP/JDBC), JWT authentication, MySQL, SQLAlchemy

CS fundamentals: OOP, Data Structures & Algorithms (~200 LeetCode in Java), DBMS & normalization

Tools: Git/GitHub, Maven, Linux, Docker (learning), Microsoft Azure (AZ-104 certified)

PROJECTS

- **Student Dashboard System** — Java 17 + Jakarta EE (Servlets/JSP/JDBC) on Tomcat 10.1 with MySQL 8; server-side rendered JSP views, authentication, and academic dashboards in strict MVC. Debugged a production 404 across a 15-hour session to a successful deploy. (Previously hosted on Azure; decommissioned.)
- **EventHub — Campus Event Booking Platform (Skill Orbit capstone):** Full-stack app with Node.js/Express REST APIs, JWT authentication, and MySQL. Backend currently being migrated to Spring Boot (JPA, Security, Docker); migration repo in progress. (Previously hosted on Render; decommissioned.)
- **eduduty — Exam Operations Portal:** FastAPI + SQLAlchemy backend (ORM-based data modeling, PostgreSQL) with Next.js 14 frontend and Supabase Auth; attendance eligibility engine, exam seating maps, invigilation duty auto-scheduler, and an AI query interface over real academic data.
- **OceanTrace — SIH 2026 (institute-level selection):** Oil-spill detection pipeline correlating satellite imagery with AIS vessel data (problem statement SIH26143, NTRO disaster-management theme), built on real Wakashio case-study datasets. (Previously hosted on Vercel; decommissioned.)

EXPERIENCE

- **Web Development Intern — Skill Orbit (Apr 2026 – May 2026):** Built responsive web applications, REST APIs with authentication, and MySQL database integrations. Capstone project: EventHub (full-stack event booking system).
- **Co-Webmaster — IEEE TEMS Student Chapter, AITR:** Website management and technical content support.

CERTIFICATIONS

- **NPTEL Programming in Java (12-week) — 2026:** Assignment 24.28/25, exam 45/75. Credential ID NPTEL26CS36S856401478.
- **Microsoft Certified: Azure Administrator Associate (AZ-104) — Oct 2026**
- **Oracle Java Foundations — Dec 2025;** AWS Academy Cloud Foundations & Generative AI Foundations — 2025; NVIDIA DLI: Building LLM Applications with Prompt Engineering — Dec 2025.

EDUCATION

B.Tech, Computer Science & IT — Acropolis Institute of Technology & Research, Indore (RGPV Bhopal), 2024–2028

Relevant coursework: Data Structures & Algorithms, DBMS, OOP (Java), Operating Systems, Computer Networks