

AKSHIT TIWARI

Java Backend Developer | Founder @ ZeroCarbon | Open Source Leader

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SUMMARY

Computer Science undergraduate focused on Java backend engineering, scalable software systems, and AI-integrated applications. Founder of ZeroCarbon, an AI-powered carbon accounting platform recognized among the Top 60 Startups (from 700+ applicants) at the Delhi Startup Yuva Festival 2026. Delivered product architecture, REST-based backend workflows, and AI-integrated web applications, and led open-source initiatives across three active programs currently managing thousands of live registrations and contributors. Currently building depth in Spring Boot, distributed systems, and cloud-native backend development.

EDUCATION

Guru Tegh Bahadur 4th Centenary

Bachelor of Technology, Computer Science | Expected Graduation: July 2028

CGPA: 8.951/10 | Latest SGPA: 8.923/10

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (Java), Database Management Systems, Operating Systems, Computer Networks, Distributed Systems

EXPERIENCE

Founder & Lead Developer | ZeroCarbon *Jan 2026 - Present*

- **Challenge:** Scope 3 emissions reporting requires manually processing scattered supplier invoices and logistics records - a slow, error-prone workflow for businesses meeting ESG disclosure requirements.
- **Action:** Founded the platform and engineered the complete product architecture, backend workflows, and data models for supplier emissions processing; built AI-driven document ingestion and emissions-estimation workflows for business invoices and logistics records; oversaw product planning, feature development, deployment, and technical roadmap.
- **Result:** Selected among the Top 60 Startups from a pool of 700+ applicants at the Delhi Startup Yuva Festival 2026.

Lead Developer *Elite Coders (Elite Coders Winter of Code) | Nov 2025 - Feb 2026*

- **Challenge:** Elite Coders' open-source program needed a centralized system to manage in-house registrations, applications, and contributor activity at scale.
- **Action:** Built a full-stack management website from the ground up to handle open in-house registrations and contributor workflows, including a profile section, leaderboard, live PR tracking, live application tracking and approval, an email broadcaster, and a multi-feature admin panel.
- **Result:** Currently live and actively managing 3,000+ applications through in-house registrations.

Top 10 Mentor *GirlScript Summer of Code 2025 | Jul 2025 - Oct 2025*

- **Challenge:** GSSoC 2025 drew 35,000+ participants, and contributors across assigned projects needed fast, reliable support to resolve technical doubts.
- **Action:** Maintained 6 projects as a mentor, resolving contributor doubts and technical issues across Discord and WhatsApp channels throughout the program.
- **Result:** Ranked among the Top 10 mentors in a program of 35,000+ participants.

Project Manager *Aorizon Research Technology (Affinea) | Jun 2026 - Present*

- **Challenge:** Published academic research has no liquid, tradeable market to reflect its value, and researchers and investors lack a shared platform to tokenize and trade research output.
- **Action:** Led a team of 5 building Affinea, a platform that tokenizes published research papers into tradeable Research Coins on the Base network; architected the investor-side, multi-tenant portal for discovering, analyzing, and trading research coins and managing a portfolio, integrating with a separate researcher-side minting portal via shared APIs and smart contracts.
- **Result:** Currently building the MVP on Web3 (Base network), with core investor-side workflows under active development.

TECHNICAL PROJECTS

ZeroCarbon *AI-Powered Carbon Accounting Platform*

- **Challenge:** Businesses lack accessible tooling to automate Scope 3 carbon accounting and sustainability reporting.

- **Action:** Structured the architecture for automating Scope 3 carbon accounting via AI-powered document processing; created supplier management, emissions analytics, and sustainability reporting workflows, focused on scalable backend architecture and enterprise-ready product design.
- **Result:** Currently in pre-launch stress-testing, iterating on platform reliability and scalability day by day ahead of public release.

ECSoc 2026 Platform *Official Open Source Program Website | Jun 2026 - Aug 2026*

- **Challenge:** The open-source program needed a system to handle registration, contributor tracking, and leaderboards under high concurrent load during the event.
- **Action:** Developed the platform used to manage registrations, contributor participation, leaderboards, and project tracking; established administrative workflows for participant management and program operations; planned scalable backend workflows to support high user activity.
- **Result:** Currently powering 3,000+ registrations across 110 project admins, 2,200+ contributors, and 300+ Campus Ambassadors.

Kryron *Online Examination & Proctoring Platform | Jun 2026 - Jul 2026*

- **Challenge:** Institutions needed a secure, role-based online exam system with safeguards against cheating.
- **Action:** Architected a complete examination workflow including administrator panels, applicant management, question banks, and automated test generation; implemented secure examination sessions with proctor mode and activity monitoring; built role-based workflows for students, administrators, and evaluators.
- **Result:** Currently under testing; successfully conducted assessments for 60+ candidates across 5+ test series.

TECHNICAL SKILLS

Languages: Java (Primary), SQL, JavaScript, TypeScript, C++, C

Backend (Building/Learning): Spring Framework, Spring Boot, Spring AI, Hibernate, Spring Data JPA, REST APIs, JWT Authentication, Microservices, Apache Kafka

Databases: MySQL, PostgreSQL, MongoDB, Redis

Frontend: React, Next.js, Tailwind CSS

DevOps & Tools: Git, GitHub Actions, Docker, Linux, Maven, Gradle, Postman

AI & Automation: Prompt Engineering, AI Workflow Automation, Google Gemini API, OCI Generative AI Service, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Document Processing

Domain Knowledge: Carbon Accounting, Scope 1/2/3, GHG Protocol, SEBI BRSR Core, Supply Chain Analytics, Web3 (Base Network), Smart Contracts, Tokenization, Multi-Tenant Architecture

ACHIEVEMENTS

- Top 60 Startup (of 700+ applicants), Delhi Startup Yuva Festival 2026
- Top 10 Mentor, GirlScript Summer of Code 2025 (35,000+ participants)
- Project Manager, Aorizon Research Technology
- Lead Developer, Elite Coders
- 2-Star HackerRank (Java)
- Overall CGPA: 8.951/10

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional** - Oracle, Aug 2025 (valid through Aug 2027) - [View credential](#)
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** - Oracle, Aug 2025 (valid through Aug 2027) - [View credential](#)
- **Google Cloud Fundamentals: Core Infrastructure** - Google Cloud, Oct 2024 - [View credential](#)
- **Implement Load Balancing on Compute Engine (Skill Badge)** - Google Cloud, Oct 2024 - [View credential](#)
- **Set Up an App Dev Environment on Google Cloud (Skill Badge)** - Google Cloud, Oct 2024 - [View credential](#)