

# VISHAL KESHARWANI

Backend Developer | Java · Spring Boot · Node.js · PostgreSQL · AWS | MIT AOE '26 | CGPA: 8.53/10  
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## PROFESSIONAL SUMMARY

Final-year Computer Engineering student at MIT Academy of Engineering (CGPA: 8.53/10) with active internship experience in Backend Development and Cloud Engineering. Skilled in Java, Spring Boot, Node.js, PostgreSQL, REST APIs, and AWS cloud services. **AWS Certified Cloud Practitioner (CLF-C02) — Score: 1000/1000**. Built production-level features including ETL query optimization, GenAI API integrations, and secure cloud deployments. 4× national hackathon winner/finalist with strong backend architecture and problem-solving skills.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript (ES6+), Python, SQL, C++

**Backend & Frameworks:** Spring Boot, Node.js, Express.js, REST APIs, ETL Pipelines, AngularJS, ReactJS

**Cloud & DevOps:** AWS (EC2, S3, Lambda, IAM, VPC, CloudFormation, EKS) · AWS Certified CLF-C02 (1000/1000) · Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD

**Databases:** MySQL, MongoDB, PostgreSQL

**Tools & Platforms:** Git, JIRA, SonarQube, Selenium, Office.js, Dassault 3DEXPERIENCE PLM

**AI & Automation:** TensorFlow, OpenCV, EfficientNet, CNNs, Generative AI APIs

## EXPERIENCE

### Backend Developer Intern | SteepGraph Systems Pvt. Ltd.

Feb 2026 – Present

**Tech Stack:** Java, Spring Boot, AngularJS, Office.js, ETL, PostgreSQL, Dassault 3DEXPERIENCE PLM

- Optimized ETL validation workflows by implementing debouncing logic, reducing redundant PostgreSQL query executions by ~50% and improving backend query efficiency.
- Refactored export/import mapping from single-lookup to list-based multi-lookup against PostgreSQL, reducing DB round-trips and improving data resolution speed.
- Designed and developed a REST API for backend table suggestions, enabling dynamic field recommendations in the frontend — eliminating manual backend lookups for new users and improving overall UX.
- Refactored controller-layer exception handling into service-layer architecture with structured logging; contributed to Outlook-to-Aras PLM data migration ensuring data integrity.

### Cloud & DevOps Intern | SortUs

Jun 2025 – Aug 2025

**Tech Stack:** Node.js, MongoDB, AWS Lambda, GitHub Actions, REST APIs, JIRA

- Built scalable Node.js + MongoDB backend modules and documented REST APIs for seamless frontend-backend integration.
- Automated serverless deployments via AWS Lambda + GitHub Actions, reducing manual release effort; managed sprints in Agile/Scrum via JIRA.

## PROJECTS

### [ReportEase – Annual Report Generation Platform](#)

Dec 2024 – Jan 2025

**Tech Stack:** MERN, AWS EC2/S3, Docker, SQL, GitHub Actions

- Built cloud-native reporting platform on AWS EC2/S3; implemented RBAC for secure multi-role faculty/admin access management.
- Configured CI/CD pipelines with GitHub Actions and Docker for automated, consistent deployments across a 6-member agile team.

### AI-Based Bone Age Assessment System

May – Oct 2025

**Tech Stack:** Python, TensorFlow, EfficientNet, OpenCV, CNN

- Built 3-model ensemble (EfficientNetV2B0 × 2, EfficientNetB4) on X-ray images with Z-score normalization, ADAM optimizer, MSE loss, and early stopping — predictions averaged across all 3 models.
- Implemented full preprocessing pipeline: sex mapping, image resizing (512×512, 1024×1024), train/validation split, and model checkpointing for reproducible runs.

### [Secure Defense Framework – NGO Donation Portal](#)

2025 – 2026

**Tech Stack:** Python, SQLite, RBAC, CSRF, Wireshark, Nmap

- Designed zero-trust 3-tier secure donation portal with authentication, RBAC, CSRF protection, input validation, and audit logging.
- Performed live attack simulations (BOLA, brute-force, route tampering) and validated network exposure using Wireshark and Nmap — all controls responded correctly.

## EDUCATION

### B.Tech – Computer Engineering | MIT Academy of Engineering, Pune

2022 – 2026 | CGPA: 8.53/10

**Coursework:** Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Web Development, Cloud Computing

## CERTIFICATIONS

**AWS Certified Cloud Practitioner (CLF-C02) — Score: 1000 / 1000 (Perfect Score)**

May 2026

## ACHIEVEMENTS

SIH 2024 Grand Finalist | E-Summit Ideathon 2024 Winner | Cavista Tech Hackathon Runner-Up | Datathon '25 Runner-Up