

BHARATHULA VENKATA VAIBHAV RAM

Hyderabad, India ♦ +91 80745 41942

bharathulavaibhav@gmail.com ♦ [linkedin.com/in/vaibhav-bharathula](https://www.linkedin.com/in/vaibhav-bharathula) ♦ github.com/Vaibhav-1819

Software Engineer with hands-on experience building Java/Spring Boot applications, REST APIs, SQL-backed systems, and full-stack web applications through academic, internship, and personal projects

TECHNICAL SKILLS

Languages: Java, J2EE, JavaScript, Python, SQL, C

Backend: Spring Boot, Spring Web (REST Controllers, DTOs, Dependency Injection), Node.js, Express.js, FastAPI

Frontend: React.js, HTML5, CSS3, JavaScript

Databases: MySQL, SQL, DuckDB, SQLite, Firebase Firestore

Tools & Practices: Git, GitHub, Version Control, Object-Oriented Programming, RESTful API Design, SDLC, Debugging & Bug Fixing, AI-Assisted Development (Claude, GitHub Copilot)

EDUCATION

Institute of Aeronautical Engineering, Hyderabad

Aug 2023 – May 2027

Bachelor of Technology (B.Tech), Information Technology

CGPA: 8.26/10

PROJECTS

CricSphere – Java Spring Boot Analytics Platform
React.js

Java, Spring Boot, REST API, SQL/DuckDB,

- Developed a Java Spring Boot backend exposing RESTful APIs for cricket analytics across **22,007+ matches** and **12,000+ player profiles**, designing modular controllers, services, and reusable DTOs with dependency injection for maintainability.
- Built a high-performance analytics serving layer using DuckDB and SQL to query **16 optimized Parquet datasets** (~13.5MB), delivering player, team, and venue intelligence through scalable REST endpoints consumed by a React frontend.

AetherAI – Environmental Intelligence Platform

FastAPI, REST API, Python, React, SQL

- Developed a full-stack web application exposing **7 REST API endpoints** for AQI prediction, simulation, geocoding, and reporting using Python, FastAPI, SQL, and React, backed by an XGBoost regressor achieving **94.2% model confidence**.
- Integrated external third-party APIs (Google Gemini, Open-Meteo Geocoding), automated PDF report generation, and debugged end-to-end backend/frontend workflows while testing predictive models.

EXPERIENCE

Deep Learning Intern, Central Institute of Tool Design (CITD)

May 2025

- Built and optimized an EfficientNet-based image classification model using TensorFlow and transfer learning on **11,000+ images** across **50 categories**, achieving **80% classification accuracy** through iterative experimentation and debugging.
- Collaborated on model evaluation, documented implementation details, and improved reproducibility of training workflows for deployment and future iterations.

ACHIEVEMENTS & CERTIFICATIONS

- Secured **97th Percentile**, Naukri Campus Young Turks 2025; **Salesforce Agentblazer Champion 2026** (Trailhead – agentic AI & AI-assisted workflows).
- **OCI Foundations Associate · AWS Academy: Data Engineering · IBM SkillsBuild AI Fundamentals**