NAIYAR HASNAIN

Java Full Stack Developer

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OBJECTIVE

Aspiring Java Full Stack Developer with a solid foundation in software architecture, scalable backend systems, and responsive web applications. Highly motivated to apply strong analytical capabilities and expertise in Java, Spring Boot, Angular, and SQL to engineer high-performance solutions, with a growing interest in applied AI.

EDUCATION

Indian Institute of Technology (IIT), Patna — **2025 – 2027**
Master of Computer Applications (MCA) — **Pursuing**

Maulana Azad National Urdu University (MANUU), Hyderabad — **2021 – 2024**
Bachelor of Science (B.Sc.) in Computer Science — **CGPA: 8.82 / 10.0**

TECHNICAL SKILLS

Languages:	Java (Core/Advanced), TypeScript, JavaScript, Python, C#, SQL, C/C++
Frontend:	HTML5, CSS3, Bootstrap, Angular, React.js, Redux Toolkit
Backend & Frameworks:	Spring Framework, Spring Boot, Spring Security (JWT), Spring Data JPA, Hibernate, REST APIs, JDBC, Spring AI (learning)
Python & Data:	NumPy, Pandas, Matplotlib
Databases & Caching:	MySQL, PostgreSQL, Redis (In-Memory Data Store), DBMS
Core CS Concepts:	Object-Oriented Programming (OOPs), Data Structures & Algorithms (DSA), Operating Systems, Computer Networks
Dev Tools & Platforms:	Docker, Git, GitHub, Maven/Gradle, IntelliJ IDEA, VS Code, Postman, AWS, OpenAPI / Swagger

PROJECTS

StepSight – Visual Desktop Copilot & Autonomous Agent ↗ Download LinkedIn — Oct 2026

Hackathon: OpenAI DevDay Exchange Hackathon, Kochi, Kerala · **Tech Stack:** C#, Avalonia 12, .NET 10, Python 3.12, FastAPI, PostgreSQL, AWS, Multimodal AI

- **Multimodal Desktop Copilot:** Built a real-time Windows desktop companion using vision models to guide users step-by-step with glowing overlays or autonomously execute tasks (supervised clicks, typing, cross-app handoffs).
- **Strict Safety Supervisor:** Enforces 15-second bounded action capability grants, instant physical takeover pausing on mouse/key motion, sensitive-field air-gapping, and local on-device privacy masking.
- **Architecture & Mobile PWA:** Developed C# Avalonia 12 (.NET 10) desktop client, FastAPI backend, and a paired mobile PWA controller via an ephemeral broker for remote monitoring and emergency-stop execution.

ResQGrid – Offline-First Disaster Relief Coordination ↗ — Sept 2026

Hackathon: AWS First Commit Hackathon 2026 (WeMakeDevs × AWS Bharat Builds Tour), Bengaluru, Team COM.SOLOSTACK · **Tech Stack:** Java 21, Spring Boot, Spring Data JPA, MySQL (RDS), Angular, TypeScript, Tailwind CSS, Docker, AWS Amplify, ECS Fargate

- **Offline-First SOS Dispatch:** Resident help requests are queued on-device during network drops and **auto-synced on reconnect**; supports multiple disaster types, special-needs tracking and optional photos.
- **Role-Based Workflows:** Multi-role portals for residents, camp workers and coordinators; coordinators triage SOS and supply requests through **Pending → Accepted → Dispatched → Delivered** with validated status transitions.
- **Backend & Cloud Deployment:** Built Spring Boot REST APIs with PBKDF2 hashing, session tokens, and pagination; deployed Dockerised backend on **ECS Fargate** with **Amazon RDS MySQL** and Angular on **AWS Amplify**.

PawBridge – Edge-AI Dog-Request Detector ↗ — Sept 2026

Hackathon: Claude Build Day, Bengaluru (team of 4) · **Tech Stack:** ESP32-H2, Ultrasonic & MPU6050 sensors, 16×2 LCD, Claude Opus + Haiku multi-agent system

- **48-Hour IoT Build:** Hardware device noticing when a dog may want something (ultrasonic trigger, motion sensor, buzzer, LCD); shipped with a live dashboard and **72 passing tests**.
- **Multi-Agent AI Pipeline:** Orchestrator (**Claude Opus**) dispatches frames and audio spectrograms to vision and audio agents (**Claude Haiku**) in parallel; answers with evidence & confidence in **~17 s** with offline fallback.

Sports Center – Full-Stack E-Commerce Platform ↗

Tech Stack: Java 21, Spring Boot, Spring Security (JWT), React.js, TypeScript, MySQL, Redis, Docker

- **End-to-End E-Commerce Flow:** Product catalog with **multi-criteria filtering**, search, pagination and persistent order checkout; REST endpoints documented with **OpenAPI / Swagger**.
- **Security & Caching: JWT authentication** with role-based access and BCrypt hashing via Spring Security; **Redis** caching for basket state; **React.js / Redux Toolkit** UI with light/dark themes.

CERTIFICATIONS

- **Programming using Java** – Infosys Springboard ↗
- **Essential Gen AI Certificate** – Google ↗

STRENGTHS

- Problem-Solving, Strong Logical & Algorithmic Thinking, Fast Learner, Self-Motivated, Team Collaboration