

# Hari Prasath K

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## PROFESSIONAL SUMMARY

- Third-year B.Tech Computer Science student with practical experience in Java backend development and MERN stack projects. Strong command of Java, Spring Boot, MERN frameworks, RESTful API design, MySQL, and object-oriented programming principles. Experienced in building and integrating scalable backend systems, collaborating using Git-based workflows, and delivering clean, production-ready applications. Skilled in debugging, performance optimization, and problem-solving, with a keen interest in blockchain technologies and decentralized system design.

## EDUCATION

**Amrita Vishwa Vidyapeetham**

*B.Tech in Computer Science and Engineering — GPA: 8.99/10*

Coimbatore, India

*Jul 2023 – Jul 2027*

## TECHNICAL SKILLS

**Languages:** Java (Advanced), Python, C, C++, SQL, HTML, CSS, JavaScript (Basic), Solidity

**Frameworks:** Spring Boot, Hibernate (Basic), Swing, React.js, Node.js, Express.js

**Databases:** MySQL, H2 Database, PostgreSQL

**DevOps & Cloud:** Git, GitHub, Maven

**Concepts:** OOP, REST API Design, File I/O, JDBC, Operating Systems, Computer Networking

## EXPERIENCE

**Java Developer Intern, Elevate Labs (Remote)**

Jun 2025 – Jul 2025

- Developed **CLI and GUI applications** in Java using **OOP, JDBC, and Swing** for real-world use cases.
- Integrated **MySQL database** with **CRUD operations** and implemented input validation for data integrity.
- Collaborated using **GitHub** for version control, performing code reviews and merging pull requests.
- Improved execution efficiency by refactoring redundant code, **reducing runtime by ~20%**.

**Java Project Contributor**

Oct 2024 – Nov 2024

- Designed and implemented a **Java Execution Tracker** for runtime code tracing and debugging.
- Optimized **logging mechanism** and implemented **variable state tracking** for accurate reporting.
- Applied **modular design principles** and optimized **data structures** to enhance performance.

## PROJECTS

**BookStore API:** GitHub — Tech Used: Java, Spring Boot, JPA, PostgreSQL, H2

- Developed a **RESTful Bookstore API** using **Spring Boot** with **PostgreSQL** for persistence.
- Implemented **CRUD operations** for book management with input validation for reliability.
- Optimized PostgreSQL queries, improving query performance by **~30%**.

**Blockchain Based Frozen Pizza Traceability:** GitHub — Tech Used: Ethereum, Solidity, Node.js, React.js, Python

- Created a **decentralized platform** for frozen pizza traceability, ensuring trust among **end users**.
- Applied **smart contract logic** to automate processes from **manufacturer to consumer** with **on-chain record storage**.
- Ensured zero **tampering of entered information** and **role-based access** for entities involved in the supply chain.

**Blockchain-Based Decentralized Token Exchange (TokeDex):** GitHub — Ethereum, Solidity, React, TypeScript, Hardhat, Wagmi

- Built a **full-stack Web3 dApp** on QIE Testnet with custom **ERC-20 token minting**, faucet distribution, and wallet integration.
- Authored secure **Solidity smart contracts** using **OpenZeppelin**, including rate limiting (24-hour cooldown) and reentrancy protection for safe token distribution.
- Developed a **TypeScript + React UI** with **Wagmi v3** and **Ethers.js v6** for real-time blockchain interactions and streamlined **Hardhat Ignition** deployments (runtime reduced by **~70%**).

## CERTIFICATIONS

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### **Artificial Intelligence Fundamentals — IBM**

2025

- Developed a strong foundation in core AI concepts, model workflows, and practical applications, including hands-on exploration of IBM watsonX agents and real-world AI deployment scenarios.

### **Oracle Cloud Foundations Associate — Oracle**

2025

- Completed foundational certification covering core cloud architecture, compute, storage, networking, and security essentials with practical experience in deploying and managing cloud resources.

### **Artificial Intelligence and Machine Learning — Skillsoft**

2025

- Gained introductory to intermediate knowledge of machine learning types, model evaluation, and real-world ML applications across industry use cases.