

VELDURTHI VENKATA MANIKUMAR

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PROFESSIONAL SUMMARY

Computer Science Engineering graduate with hands-on experience developing full stack web applications and AI-driven software solutions using Java, Spring Boot, React.js, JavaScript, Python, and MySQL. Built scalable applications focused on automation, intelligent analysis, and responsive user experiences. Strong understanding of frontend engineering, backend integration, REST APIs, database management, and software problem-solving through real-world project implementations.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL

Frontend Technologies: HTML5, CSS3, React.js, Bootstrap

Backend Technologies: Spring Boot, JDBC, REST APIs, Microservices

Databases: MySQL, Oracle SQL

AI & Machine Learning: Deep Learning, CNN, OpenCV, Image Processing

Tools & Platforms: Git, GitHub, VS Code

Core Concepts: Object-Oriented Programming (OOP), Full Stack Development, MVC Architecture

EXPERIENCE

Java Full Stack Development Trainee, JSpiders Training Institute, Hyderabad 2025

- Built backend modules and database-driven workflows using Java, JDBC, Spring Boot, SQL, and REST APIs
- Developed application features involving authentication, API communication, and database operations
- Practiced collaborative development workflows using Git and GitHub version control
- Strengthened debugging, backend integration, and software problem-solving capabilities through practical assignments

Frontend Developer Intern, Academor EdTech Pvt. Ltd, Bangalore 2024

- Designed and optimized responsive web pages using HTML, CSS, and JavaScript across multiple screen sizes
- Improved user interface responsiveness and browser compatibility for smoother user experience
- Collaborated with mentors to implement frontend modules and reusable UI components within deadlines
- Enhanced practical exposure to frontend workflows, responsive layouts, and modern web development practices

Network Engineering Intern, Bharat Sanchar Nigam Limited (BSNL), Hyderabad 2024

- Gained exposure to enterprise networking environments involving routing, switching, and communication systems
- Observed real-time network monitoring and troubleshooting procedures within operational infrastructure
- Improved understanding of communication architecture, connectivity workflows, and infrastructure management

PROJECTS

Blood Group Detection Using Fingerprints 2025

Tech Stack: Python, Deep Learning, CNN, OpenCV, JavaScript, HTML, CSS

[GitHub Repository](#)

- Engineered an AI-powered fingerprint analysis system capable of predicting blood groups using deep learning models

- Processed and analyzed 1000+ fingerprint samples through preprocessing, feature extraction, and CNN-based workflows
- Developed an interactive analysis dashboard supporting fingerprint uploads, confidence-based prediction, and automated reporting
- Implemented visualization modules including heatmap analysis and prediction confidence tracking
- Improved understanding of real-world dataset handling, model optimization, and intelligent system development

LaundryHub — Smart Laundry Service Web Application 2025

Tech Stack: Java, Spring Boot, JavaScript, MySQL, HTML, CSS, REST APIs

[Project Repository](#)

- Developed a full stack laundry service platform supporting service booking, order tracking, and cart management functionalities
- Integrated responsive frontend components with backend services using Spring Boot and REST API architecture
- Structured MySQL database workflows for customer management, service handling, and order processing
- Optimized frontend responsiveness and application flow to improve usability across desktop and mobile devices
- Implemented scalable backend communication workflows for seamless frontend-backend integration

Smart Blood Bank Management System 2025

Tech Stack: Java, JDBC, MySQL, OOP, Database Management

[Source Code](#)

- Built a console-based blood bank management application for donor registration, recipient handling, and blood inventory tracking
- Designed JDBC-based database connectivity workflows for efficient record management and request processing
- Implemented blood stock monitoring, search functionality, and admin management operations
- Streamlined request handling workflows to improve operational coordination and data accessibility
- Strengthened backend logic implementation and database-driven application development skills

CERTIFICATIONS

Java Full Stack Development — JSpiders Training Institute 2025

Introduction to HTML, CSS & JavaScript — IBM Coursera 2025

Data Analytics and Visualization Job Simulation — Accenture (Forage) 2025

Python Programming — Skill India NSDC 2025

EDUCATION

Puducherry Technological University, Puducherry, India May 2025
 Bachelor of Technology in Computer Science and Engineering
 CGPA: 8.79

Sri Sai Junior College, Yanam, Puducherry, India May 2021
 Intermediate (MPC)

Sarada Vidya Niketan Govt Aided High School, Yanam, Puducherry, India May 2019
 Secondary Education

ACHIEVEMENTS

- Coordinated the ICON Technical Event at Puducherry Technological University with participation from 100+ students
- Earned technical certifications in Java, frontend development, Python programming, and data analytics
- Developed full stack, AI-based, and database-driven software applications through practical engineering projects