GNANASANKARI B

M.Tech, Computer Science & Engineering (Core) - VIT Chennai | 2025-2027

Portfolio Website | bgsankari11@gmail.com

SUMMARY

M.Tech CSE Core student with prior backend development experience in enterprise banking systems. Hands-on experience with Java, RESTful APIs, MySQL, system design, Git, and Agile Scrum from roles at Odessa Technologies and Zoho. Actively seeking backend engineering roles.

EDUCATION

Master of Technology - Computer Science & Engineering (Core)

Vellore Institute of Technology, Chennai — Jul 2025 - Present

Achievements : CGPA : 9.73 (Till 1st Sem)

Bachelor of Engineering - Electronics & Communication Engineering

Velammal Institute of Technology, Panchetti — Jul 2015 - May 2019

Achievements : Anna University Rank Holder (Secured 17th Rank), College & Department Topper (CGPA 9.08)

PROJECTS

Enhanced Data Privacy & Security Framework for UAV Swarm Networks Using Blockchain & AI Driven Encryption — Sep 2025 - Present

Developing a secure UAV swarm communication system using blockchain authentication and AI-driven intrusion detection.
Tech Stack : MATLAB, AI/ML, Cryptography, Blockchain

Machine Unlearning in Keyword Spotting Systems — Jan 2026 - Present

Researching machine unlearning methods to erase specific keywords from trained speech recognition models for privacy preservation. *Tech Stack: Python, Machine Unlearning, Speech Processing*

Automated Software Vulnerability and Patch Management System — Jan 2026 - Present

A framework that continuously detects software vulnerabilities, correlates them with CVEs, and automatically deploys patches to reduce exploitation risk and strengthen enterprise endpoint security.

Unlocking Societal Trends in Aadhaar Enrolment and Updates — Jan 2026

Performed statistical analysis on Aadhaar data to uncover trends and anomalies with visual dashboards.
Tech Stack: Data Analysis, Visualization

Phoenix Dial : Smart Sales Call Tracking System — Jan 2026

Developed a full stack sales call tracking system enabling lead assignment, call logging and performance analytics for improved follow ups. *Tech Stack: React JS, MongoDB, Agile Methodologies*

AI Personal Task Automation Agent — Dec 2025

Built a web application using NLP and LLM models with Gmail automation and chatbot support
Tech Stack: React JS, HTML, CSS, MongoDB

PROFESSIONAL EXPERIENCE

Software Engineer at Odessa, Bangalore — Jun 2019 - May 2020

• Developed and delivered key modules for a Security Bank enterprise application, contributing to ~40% of the overall development effort.

• Owned the design and implementation of the Non Performing Assets (NPA) module, ensuring accurate financial tracking and regulatory compliance.

• Built flexible job creation workflows to support evolving client batch processing requirements.

• Mentored junior developers through code reviews, improving maintainability and adherence to coding standards.

Tech Stack: Java and MySQL

Summer Intern at Zoho Corporation Pvt Ltd, Chennai — Jun 2018

• Created a Java-based web application to manage and store student information across multiple colleges.

• Integrated the application with a relational database to support CRUD operations.

• Implemented backend logic with proper data validation and error handling.

SKILLS

Languages: C, C++, Java,Python	*Tools: Git & GitHub*	*Concepts: System Design, Agile (Scrum)*
FrontEnd: React JS	*Databases: MySQL, MongoDB*	*Backend: REST APIs*

ADDITIONAL INFORMATION

- *Publications:* Published research paper titled "Voice 2Action: A Civic Task Routing and Micro Employment Platform for Local Problem Resolution" in the International Journal of Engineering Research and Technology (IJERT), December 2025.
- *Achievements:* Built an AI-based task automation agent and won Second Prize at the DataQuest 2.0 Hackathon
- *Achievements:* Developed a smart call tracking system and won First Prize at HackCrate Hackathon
- *Positions:* Program Representative for M.Tech Computer Science and Engineering Core, supporting academic coordination. Competitive coding member of the Microsoft Innovation Club. Management and technical member of Nexus Club and Voice IT Club. RJ Tamil at the Voice IT Club, demonstrating strong communication skills.