

# GOPIKANTH S

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## Education

Vellore Institute of Technology, Vellore

August 2022 – May 2026

B.Tech Information Technology

CGPA: 7.90

Thuneri Government Model Higher Secondary School, The Nilgiris

June 2020 – April 2022

Computer Science Stream (HSC)

Percentage: 85.33%

## Projects

**Earthquake Detection System** | IoT, Firebase Realtime DB, FCM, Python, AI/ML, Flask

- Developed a real-time earthquake detection system using NodeMCU sensors to stream vibration data to Firebase.
- Trained a machine learning classifier on seismic data to identify tremor patterns and issue early warnings.
- Integrated Firebase Cloud Messaging to send instant alerts for abnormal seismic activity.
- Exposed a Flask-based REST API for prediction, data visualization, and alert control.

**Nutrition Recommendation Planner** | AWS (DynamoDB, Lambda, SNS), React.js

- Hosted a personalized meal recommendation model using AWS Lambda and DynamoDB for scalable processing.
- Used SNS to send weekly nutrition summaries via email.
- Built a responsive React.js interface for data input and dashboard visualization.

**Green Bin: Smart Garbage Pickup System** | React.js, Spring Boot, MySQL, Firebase Auth

- Developed a web application enabling users to request garbage pickup and track status via interactive dashboards.
- Built role-based login/signup system with Firebase and custom JWT authentication in Spring Boot.
- Enabled a QR scanner for garbage collectors to instantly scan and update pickup status to "completed" from their phone.
- Enabled admins to manage pickup requests and send real-time Email notifications to users upon status updates.

## Achievements

- Awarded **100% Scholarship** under the prestigious **STARS Scheme at VIT Vellore** for securing 1<sup>st</sup> rank in district in 12th grade.
- Received the **Scope Project Award in Chemistry** from the Tamil Nadu Education System for excellence in scientific research and innovation.
- Honored as **LIC Student of the Year** by LIC for academic excellence and contributions during HSC.

## Technical Skills

**Languages:** Java, C, C++, HTML/CSS, JavaScript, SQL, PL/SQL

**Frameworks:** Spring Boot, Bootstrap, React.js, Angular.js, Node.js, Express.js

**Developer Tools:** GitHub, MySQL, MongoDB, IntelliJ IDEA, VS Code, Eclipse, DynamoDB

**Soft Skills:** Team Collaboration, Critical Thinking, Time Management, Decision-Making

## Relevant Coursework

- |                                  |                           |                     |
|----------------------------------|---------------------------|---------------------|
| • Data Structures and Algorithms | • Database Management     | • Operating Systems |
| • Object Oriented Programming    | • Artificial Intelligence | • Web Technologies  |
| • Software Engineering           | • Computer Networks       | • Machine Learning  |

## Certifications

- Full Stack Development by NoviTech.Power. ([link](#))
- Java Full Stack Certification Course by Six Phrase. ([link](#))