

# Goutham JR

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## EDUCATION

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### R V INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Master of Computer Applications

CGPA: 8.67

Relevant Coursework: Mobile Development, Software Engineering; Operating Systems; Data Structure and Algorithms;

Bangalore, KA

Expected September 2025

### ASC DEGREE COLLEGE AFFILIATED TO BANGALORE UNIVERSITY

Bachelor of Computer Applications

CGPA: 8.85

Relevant Coursework: Software Engineering; Operating Systems; Data Structure and Algorithms; Web Development;

Bangalore, KA

November 2023

## WORK EXPERIENCE

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### TECHCITI TECHNOLOGIES PVT LTD.

Software Engineer Intern

Bangalore, KA

Nov 2024 – Jan 2025

- Developed an automated bug triage system that improved efficiency and accuracy.
- Enhanced machine learning models through data pre-processing, feature selection, and dimensionality reduction.
- Integrated real-time data pipelines and CI/CD workflows for better automation.

## PROJECTS

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### CRYPTOLINK – SECURE CHAT APPLICATION WITH HYBRID ENCRYPTION

May 2025 – Ongoing

- Build a CLI & GUI based secure chat app in C++ using hybrid AES + RSA encryption.
- Implemented OpenSSL for encryption and Boost.Asio for cross-platform networking.
- Added session key rotation to enhance data security and prevent replay attacks.

### INTERNET OF THINGS (IoT) - COMMUNICATION AND CONTROL USING XBEE PROTOCOL

Feb 2022

- Implemented wireless communication between sensors and control devices using the Xbee Protocol.
- Optimized module configurations to ensure seamless remote control and reliability.
- Designed a real-time monitoring and control system using VB.NET and Xbee for improved automation.

### WEB APPLICATION DEVELOPMENT - PORTFOLIO WITH COMMUNICATION AND BLOG

#### INTEGRATION USING J2EE

Jan 2023

- Developed a web portfolio using J2EE and NetBeans.
- Integrated communication features and blog posting functionality.
- Used J2EE for Backend development and database integration.
- Built a portfolio website, improving personal branding and visibility.

## TECHNICAL KNOWLEDGE

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**Technical Skills:** C++, C, C#, Java, SQL, MERN, Python

**Cloud:** Google Cloud & IBM Cloud

**Concept & Tools:** Data Structures & Algorithm (DSA), Object-Oriented Programming (OOP), Git & GitHub.

**Cyber Security Skills:** Cryptography (AES, RSA, FHE), Secure Network Protocol, OpenSSL, Key Rotation.

**Development Tools:** Visual Studio, VS Code, Postman, MSSQL, JetBrains, Eclipse IDE.

**Languages:** English, Kannada, Telugu, Hindi, Tamil

## ACTIVITIES

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### SMART INDIA HACKATHON

Bilaspur, CG

Participant

Reached the final stages of Smart India Hackathon 2024, demonstrating problem-solving and coding expertise.

### RESEARCH PAPER

Published a paper

"Secure Folder Encryption using Homomorphic Encryption with Microsoft SEAL" in IEEE International Conference on Computing for Sustainability and Intelligent Future (COMP-SIF), pp 1-6, March 2025.