

# GUNDUMALLE ASHLIN JOEL

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Hyderabad 500025, India

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## EDUCATION

Vellore Institute of Technology, Vellore  
*Bachelor Of Technology, Computer Science*

October, 2021 - Present

Narayana Junior College, Hyderabad  
*Intermediate Education, PCM*

June, 2019 - April, 2021

St. Patrick's High School, Hyderabad  
*Secondary Education*

June, 2009 - March, 2019

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## PROJECTS

### Rock Fetch: A Hostel Student Essentials Website [URL](#)

- Led a team in developing a full-stack web application for hostel students, utilizing HTML5, CSS, JavaScript, Node.js, Express, EJS, salting hashing, multer and PostgreSQL for both frontend and backend functionality.
- Developed RESTful APIs, managed session handling, optimized databases, and ensured data security, achieving a 30% improvement in response time and a 25% reduction in server load through simulated testing.

### HawkAI: A Gesture Based Restaurant Food Ordering System [URL](#)

- Led the development of a full-stack web application for hostel students with HTML5, CSS, JavaScript, Node.js, Express, EJS, and PostgreSQL, integrating a human activity recognition algorithm.
- Achieved a 30% improvement in response time and a 18% reduction in server load through optimization and simulated testing.

### ThermoSense: AI-Powered Physiological Monitoring and Risk Assessment System

- ThermoSense is an AI-powered system that monitors physical activity and body temperature using IoT sensors in smartphones or smartwatches to assess health risks during intensive tasks.
- It utilizes Temporal Convolutional Networks (TCN) and Gated Recurrent Units (GRU) to analyze real-time data and provide timely alerts to prevent potential health issues.

### Enhanced Human-Computer Interaction for Smart Surgical Systems

- Developed an AI, ML, and IoT-driven surgical automation system that consolidates control of devices like lights, ultrasound machines, and cameras into a single interface for minimal manual adjustment.
- Designed an algorithm using Python, OpenCV, TensorFlow, and IoT to communicate with devices via a digital-to-analog converter, enhancing precision and efficiency in surgical procedures.

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## SKILLS

- Cloud Computing:** AWS Cloud Architecting, AWS Management Console, and designing scalable cloud architectures.
- Full Stack Development:** HTML, CSS, JavaScript, Node.js, Express, EJS, jQuery, React, and developing RESTful APIs.
- Database Management:** PostgreSQL, MySQL, MongoDB, multer and implementing salting and hashing techniques.
- Programming Languages:** Python, C, C++, and Java.
- Tools:** GitHub version controlling and Canva for UI/UX design, MS Office.

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## CERTIFICATIONS & LICENSES

- AWS SOLUTIONS ARCHITECT - ASSOCIATE [URL](#)

*Issued by: AMAZON WEB SERVICES  
Issued on: December, 2023  
Valid Till: December, 2026*

- AWS CLOUD PRACTITIONER [URL](#)

*Issued by: AMAZON WEB SERVICES  
Issued on: November, 2023  
Valid Till: December, 2026*

- FULL STACK DEVELOPER [URL](#)

*Issued by: Udemy  
Issued on: November, 2023*

- RESPONSIVE WEB DESIGN [URL](#)

*Issued by: Udemy  
Issued on: September, 2023*

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## POSITIONS

HEAD BOY  
*St. Patrick's High School*

June, 2018 - March, 2019

PUBLICITY, OUTREACH AND FINANCE HEAD  
*VIT Anchoring Club*

May, 2023 - February, 2024

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