

# Maheswari Sugumanchi

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## Professional Summary

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Computer Science Engineering graduate with proven experience in Full Stack Development, Machine Learning, Internet of Things (IoT), and Cloud Computing. Skilled in designing, developing, and deploying RESTful APIs, microservices, and real-time systems. Adept at delivering scalable, maintainable software solutions that improve performance and efficiency. Strong analytical, debugging, and collaboration skills with hands-on experience in Agile and DevOps environments.

## Technical Skills

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**Programming Languages:** Java, Python, JavaScript, SQL  
**Frontend Development:** React.js, HTML5, CSS3, Bootstrap  
**Backend Development:** Spring Boot, Node.js, Express.js, RESTful API Development  
**Databases:** MySQL, PostgreSQL, MongoDB  
**Cloud and DevOps:** Amazon Web Services (AWS), Docker, Git, GitHub, CI/CD Pipelines  
**Machine Learning:** Scikit-learn, TensorFlow, Pandas, NumPy, Predictive Modeling  
**IoT:** Arduino, Raspberry Pi, Sensor Integration  
**Testing:** JUnit, Selenium, Unit Testing  
**Operating Systems:** Linux, Windows

## Education

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<b>Bachelor of Technology in Computer Science and Engineering</b> — SRIT Proddatur	2021 – 2025
CGPA: 8.9/10	
<b>Higher Secondary Certificate (Science)</b> — Abhyas Junior College, BIEAP	2019 – 2021
Percentage: 95%	
<b>Secondary School Certificate</b> — Municipal High School, CBSE	2018 – 2019
Percentage: 90%	

## Professional Experience

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<b>Full Stack Java Developer Intern</b> — SkillDzire Technologies	May 2024 – Jul 2024
<ul style="list-style-type: none"><li>– Improved RESTful APIs, increasing data throughput by 40 percent and boosting backend performance.</li><li>– Implemented a microservices architecture using Protocol Buffers, reducing latency by 30 percent.</li><li>– Containerized applications using Docker and deployed them via Kubernetes on AWS, achieving 99 percent uptime.</li><li>– Developed CI/CD pipelines for automated build, test, and deployment processes.</li></ul>	
<b>Machine Learning Engineer Intern</b> — ExcelR Solutions	Dec 2024 – Apr 2025
<ul style="list-style-type: none"><li>– Designed and fine-tuned machine learning pipelines for datasets exceeding 500 million records, reducing model training time by 15 percent.</li><li>– Built predictive models using Python, Scikit-learn, and TensorFlow, achieving over 85 percent accuracy.</li><li>– Integrated machine learning models into production via REST APIs, accelerating decision-making speed by 20 percent.</li><li>– Performed data cleaning, feature engineering, and model validation to ensure accuracy and scalability.</li></ul>	

## Projects

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**IoT-Based Real-Time Health Monitoring System** — Jan 2025 – Apr 2025

- Improved an IoT-based system using Arduino and biomedical sensors to monitor vital parameters with 99 percent uptime.

- Systematized SMS and email alerts through Twilio API, reducing manual intervention by 90 percent.
- Created a responsive web dashboard for real-time patient monitoring and data visualization.

#### **Enterprise Food Delivery Platform — Feb 2024 – Mar 2024**

- Built a full-stack food delivery web application supporting 1000 plus concurrent users with secure authentication and payment integration.
- Upgraded the admin dashboard for order tracking and inventory management, cutting operational delays by 25 percent.
- Optimized mobile-first user interface to increase mobile engagement by 15 percent.

#### **Professional Portfolio Website — Apr 2024 – May 2024**

- Established a personal portfolio website using HTML, CSS, and JavaScript with responsive UI and SEO optimization.
- Mechanized deployment using GitHub Pages and CI/CD workflows, reducing update time to zero downtime.

### **Certifications**

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- Microsoft Certified: Generative AI Fundamentals
- Microsoft Certified: Python Developer
- Data Structures and Algorithms Certification, Great Learning
- MySQL Database Administration Certification, Great Learning

### **Publications**

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- "IoT-Based Real-Time Health Monitoring and Alert System Using Arduino" — International Journal of Science, Engineering and Technology, Volume 13, Issue 2, 2025.  
Co-authors: Y. Subba Reddy, P. Dharani, C. N. Sharanya, L. S. K. Reddy

### **Achievements**

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- District-Level Qualifier, Chekumuki Talent Test
- Community Service Leader, organized donation drives benefiting over 200 individuals
- Technical Event Coordinator, managed college technology fest with 500 plus participants
- Academic Excellence, ranked in the top 10 percent of the class