

# Srinivasa Rao Talari

Bayyavaram , Andhra Pradesh  
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## PROFILE

Computer Programmer with hands-on experience in full-stack development, proficient in Java, Python, C, JavaScript, and SQL. Excels in coding, testing, and refining software applications while collaborating with development teams. Demonstrates a strong commitment to building reliable, user-focused solutions and robust error-free software.

## EDUCATION

<b>Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada</b> <i>Bachelor of Technology, Artificial Intelligence and Data Science</i> • <b>GPA:</b> 8.93	<b>2023 - Present</b>
<b>Adsumlu Aswardha Narayana Muurthi &amp; Valluripalli Venkata Rama Seshadri Rao College</b> <i>Diploma, Computer Engineering</i> • <b>GPA:</b> 89.17%	<b>2020 - 2023</b>
<b>Padmavathi EM High School, Vidyanagar, Krosuru</b> <i>Secondary School Certificate (SSC)</i> • <b>GPA:</b> 9.2	<b>2019 - 2020</b>

## PROFESSIONAL EXPERIENCE

<b>Coding Raja Technologies</b> <i>Web Developer</i> • Developed and maintained responsive web applications using HTML, CSS, JavaScript, and SQL while testing functionalities to ensure optimal performance and adherence to design specifications. • Collaborated with software development teams to enhance user-focused solutions by contributing to debugging efforts and updating existing code libraries.	<b>Jan 2024 - Mar 2024</b> <i>(Remote Work)</i>
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## PROJECTS

<b>Health Insurance Fraud Detection Using Machine Learning</b> • AI-powered fraud detection for health insurance claims • Developed a machine learning model using XGBoost and SVM for fraud detection. • Implemented data preprocessing, anomaly detection, and feature engineering, integrating it into a web dashboard for real-time analysis, which reduced financial losses.	<b>Present</b>
<b>Smart Helmet for Coal Mine Workers</b> • IoT-based safety solution for coal mine workers • I developed a smart helmet that incorporates Arduino, gas sensors, GPS, and an SMS alert system to detect methane (CH4) and carbon monoxide (CO) in coal mines. • The helmet features LoRa/GSM communication, allowing for real-time, long-range alerts to both workers and control rooms, thereby enhancing workplace safety.	
<b>Resume Building Tool</b> • AI-powered resume-building platform • Created a web-based platform featuring templates, real-time suggestions, and AI-driven feedback for professionally optimized resumes.	
<b>Advanced Smart Payroll Management system</b> • * Developed a payroll system using Python (Flask), MySQL, and Bootstrap/Tailwind CSS. • * Implemented role-based authentication for secure HR and employee access. • * Automated payroll processing, including PF, ESI, and TDS deductions. • * Achieved a 40% reduction in payroll processing time. • * Integrated biometric attendance for real-time tracking and alerts. • * Provided employee self-service functionality (payslips, leave requests, attendance). • * Included analytics dashboards for payroll trends and employee data insights.	<b>Mar 2025 - May 2025</b>

## SKILLS

- **Skills:** Photography, Sports, Traveling, Reading, Computer Programming, Software Development
- **Languages:** Java, Python, C, JavaScript, R
- **Web Development:** HTML, CSS, JavaScript, React.js
- **Data Science:** Machine Learning, Data Analysis, Data Visualization, Deep Learning, AI
- **Backend Languages:** SQL, MongoDB, Django
- **Tools:** GitHub, Jupyter, Colab, Visual Studio Code

- **Operating Systems:** Windows

## CERTIFICATES

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- **Java Programming Fundamentals:** GalileoX (Universidad Galileo)
- **Foundation of R Software:** IIT Madras (NPTEL)
- **Artificial Intelligence with Python - Heuristic Search:** Infysos
- **Hardware and Operating Systems:** IBM
- **Introduction to Data Science with Python:** HarvardX (Harvard University)
- **Ethical Hacking:** IIT Kharagpur ( NPTEL)
- **NDG Linux Essentials:** Cisco Networking Academy
- **Introduction to Deep Learning:** Infysos
- **Introduction to MongoDB for Students:** MongoDB
- **Production Machine Learning Systems:** Google Cloud (Coursera)
- **Introduction to Networks:** Cisco Networking Academy

## Internship

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- Eduskills. AI-ML Virtual Internship . Gained hands-on experience with machine learning algorithms, data preprocessing, and model evaluation using Python and libraries like TensorFlow.
- DevSkillHub Training & Consultancy. SQL Internship. Worked on database management, SQL query writing, and optimizing relational databases for efficient data retrieval.
- Lineysha and Thevan Software Technologies. Full Stack Development Training & Internship (Python, Django) . Developed full-stack web applications using Python, Django, and REST APIs for both front-end and back-end tasks.
- Eduskills. Cloud Virtual Internship . Gained experience in cloud infrastructure, AWS and Azure services, and cloud-based development tools for app deployment.
- Coding Raja Technologies. Web Development Internship. Contributed to web projects using HTML, CSS, JavaScript, and backend integration to build dynamic websites.

## LANGUAGES

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- English (••••), Telugu (••••)

## AWARDS

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- **First Place - Innovation Day Celebration:** Velagapudi Ramakrishna Siddhartha Engineering College • Won 1st place for the "Smart Helmet for Coal Mine Workers," an AIoT safety solution for detecting harmful gases in coal mines.
- **Top 8 Startup and Innovation Ideas:** AIC ALEAP WE Hub & MSME Minister, Andhra Pradesh

I was recognized for my startup idea, "Robotics for Bomb Detection and Disposal." I presented this concept at an MSME-sponsored innovation event, where it received industry acclaim for its focus on AI-driven optimization in logistics. I received the award for best startup idea.

- **Appreciation Award - Innovation Acquisition Summit-24 (Vikas-24):** VIT-AP, in collaboration with FAPSIA & NRDC

Received an Appreciation Award Shield for presenting the Smart Helmet for Coal Mines at the Innovation Acquisition Summit-24 (Vikas-24). Recognized for technological innovation and real-world impact in enhancing worker safety through AIoT-based gas detection and real-time monitoring.

- **Secured 3 Lakhs Funding for Smart Helmet Project (AIoT-Based Harmful Gas Detection for Coal Mine Workers):** Secured 3 lakhs in funding for the development of an AIoT-based smart helmet to monitor harmful gases in real-time. The project aims to enhance coal mine workers' safety through early detection of hazardous gases and real-time alerts. The funding will support research, hardware integration, and system deployment.

## VOLUNTEER EXPERIENCE

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### National Service Scheme (NSS)

2023 - Present

#### Volunteer

- I participated in various service activities, including a blood donation camp and waste plastic collection.