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**

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

**Coding Raja Technologies Jan 2024 - Mar 2024**

*Web Developer (Remote Work)*

* 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.

**PROJECTS**

**Health Insurance Fraud Detection Using Machine Learning Present**

* 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.

**Smart Helmet for Coal Mine Workers**

* 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.

**Resume Building Tool**

* AI-powered resume-building platform
* Created a web-based platform featuring templates, real-time suggestions, and AI-driven feedback for professionally optimized resumes.

**Advanced Smart Payroll Management system Mar 2025 - May 2025**

* \* 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.

**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**

* **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**

* 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**

* English (• • • •), Telugu (• • • •)

**AWARDS**

* **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

1. 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

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**

**National Service Scheme (NSS)**

*Volunteer*

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