Tarun Srinivas
Intern AI Engineering Volunteer Intern / Software Engineer DevOps Intern / Software Engineering Intern

SUMMARY

Software engineer with hands-on AWS cloud services experience, automation, and container orchestration skills leveraged in AI and DevOps internships. Proven CI/CD, deployment automation, and troubleshooting skills, enhancing release speed by 25% and reducing manual work by 40%. Developed safety-critical embedded software. Strong computer science education with high GPA scores. Proficient in Python, Java, along with CI/CD tools like Jenkins, containerization with Docker, and orchestration with Kubernetes.

TECHNICAL SKILLS

Main Technical Skills	AWS, IAM, VPC Peering, AWS EC2, EB
Programming Languages	JavaScript
C++ Libraries and Tools	C/C++/C#
JavaScript Frameworks	Node.js, React
JavaScript Libraries and Tools	Redux
Java Frameworks	Spring Boot
Java Libraries and Tools	Spring Data, Thymeleaf
Databases & Management Systems / ORM	MongoDB, MySQL, PostgreSQL
Cloud Platforms, Services & Computing	AWS
Amazon Web Services	AWS EC2
Platforms	Antes

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QA, Test Automation, Security	Apache Maven
Deployment, CI/CD & Administration	CD DevOps pipelines
Virtualization, Containers and Orchestration	Docker Compose, VPC Peering
Version Control	Github Actions
Collaboration, Task & Issue Tracking	Jira
Methodologies, Paradigms and Patterns	MVC
SDK / API and Integrations	Stripe
Other Technical Skills	: Arduino, ESP32, framework, Spring model-view-controller

WORK EXPERIENCE

Developer, Nursery Shopping Web Application

Duration: Not Stated

Summary: Developed an e-commerce web application for nursery items using modern web technologies.

Responsibilities: Created dynamic cart management, real-time product filtering, and an intuitive user interface.

Technologies: JavaScript, React.js, CSS, Node.js, MongoDB, Stripe API

Developer, Tree-Cutting Contractor Management System

Duration: Not Stated

Summary: Engineered a Java microservices-based application to manage tree-cutting contractor operations.

Responsibilities: Provided secure, role-based access, integrated quote submission and order processing.

Technologies: MySQL, Java

Developer, Inventory Management System

Duration: Not Stated

Summary:

- Developed a React-based web application for inventory management with a Node

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- js backend

Responsibilities: Integrated RESTful APIs for stock management, implemented Redux for state management.

Technologies: React, Node.js, PostgreSQL, Redux

Developer, Taskify–Task Management System

Duration: Not Stated

Summary: Built a task manager web application with Java and Spring Boot.

Responsibilities: Allowed users to manage tasks with CRUD functionality, integrated Spring Mail for email reminders.

Technologies: Java, Spring Boot, MySQL, Thymeleaf

Developer, IoT-Based Door Security Alert System

Duration: Not Stated

Summary: Connected a Servo Motor to an ESP32 board controlled through a mobile app for door security.

Responsibilities: Developed locking logic, enabled remote door control, and integrated real-time notifications.

Technologies: ESP32, Servo Motor, Blynk App, Arduino IDE

AI Engineering Volunteer Intern, Gen-AI-powered B2C Automation System

Duration: June 2025 – Present

Summary: Spearheaded the development of a Gen-AI-powered system for automating B2C manufacturing.

Responsibilities: Developed smart agents for customer service and product design, conducted AI architecture studies.

Technologies: Python, OpenAI APIs, Docker, Git

Software Engineer DevOps Intern, Load Traffic Control Tool Implementation

Duration: January 2023 - August 2023

Summary: Improved build and deployment processes for a software development company.

Responsibilities: Automated build/release environments, monitored builds, deployed applications.

Technologies: Jenkins, Maven, Shell scripts, Apache Tomcat, WebSphere

Software Engineering Intern, Industrial Safety-Critical Systems

Duration: August 2022 - January 2023

Summary: Developed embedded software for safety-critical systems in an industrial automation context.

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Responsibilities: Implemented new manufacturing logic, improved system workflows, developed proximity detection system.

Technologies: C, MQ sensors, Arduino Uno, Ultrasonic sensors, Tinkercad

EDUCATION

- **Master of Science in Computer Science**
- Web Technology, Cyber Security, Data Science, DBMS, Artificial Intelligence, Computer System Security
- Current
- **Bachelor of Engineering in Computer Science Engineering**
- Data Structures and Algorithms, DevOps, Artificial Intelligence, Operating Systems, Computer Networks.
- Complete

CERTIFICATION

- **Developing Front-End Apps with React**
- Coursera course covering front-end application development using React.
- NA
- **Developing Back-End Apps with Node.js and Express**
- Coursera course covering back-end application development with Node.js and Express.
- NA
- **The Joy of Computing Using Python**
- NPTEL course covering the basics of computing using Python.
- NA

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