

# 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

<b>Main Technical Skills</b>	AWS, IAM, VPC Peering, AWS EC2, EB
<b>Programming Languages</b>	JavaScript
<b>C++ Libraries and Tools</b>	C/C++/C#
<b>JavaScript Frameworks</b>	Node.js, React
<b>JavaScript Libraries and Tools</b>	Redux
<b>Java Frameworks</b>	Spring Boot
<b>Java Libraries and Tools</b>	Spring Data, Thymeleaf
<b>Databases &amp; Management Systems / ORM</b>	MongoDB, MySQL, PostgreSQL
<b>Cloud Platforms, Services &amp; Computing</b>	AWS
<b>Amazon Web Services</b>	AWS EC2
<b>Platforms</b>	Antes
<b>QA, Test Automation, Security</b>	Apache Maven
<b>Deployment, CI/CD &amp; Administration</b>	CD DevOps pipelines
<b>Virtualization, Containers and Orchestration</b>	Docker Compose, VPC Peering
<b>Version Control</b>	Github Actions

<b>Collaboration, Task &amp; Issue Tracking</b>	Jira
<b>Methodologies, Paradigms and Patterns</b>	MVC
<b>SDK / API and Integrations</b>	Stripe
<b>Other Technical Skills</b>	: 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.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.

**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