Sunny Vijay Rout

Lead Software Engineer | AWS | Gen AI | CI/CD Automation Specialist | Full Stack Developer

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PROFESSIONAL SUMMARY

I'm a seasoned Software Engineer with over 8 years of experience building secure, scalable, and cloud-native applications. I approach technical challenges with a dedicated, deep-dive mindset, always aiming for transparent solutions. My expertise spans DevOps, CI/CD, and full-stack development across AWS, Docker, and Kubernetes. I have a proven track record of leading automation initiatives, managing complex cross-platform integrations, and consistently delivering high-impact solutions. I'm adept at leveraging modern tools and languages to streamline development, enforce coding standards, and actively mentor team members, all while championing agile practices as a Scrum Master.

SKILLS

Tools/Frameworks:

- .NET (8 yrs)
- TeamCity, IntelliJ IDEA, Jira, Kanban, Confluence, .NET Core, Node.js (5 yrs)
- Jenkins, GitHub Actions, Artifactory, Slack, Svelte (4 yrs)
- AWS, RESTful API, Terraform, Terragrunt, Docker, React.js (3 yrs)
- GitCopilot, Kubernetes (2 yrs)
- Generative AI

Languages:

- C# (8 yrs)
- XML, JSON, JavaScript (7 yrs)
- CI/CD, Python, Kotlin, (5 yrs)
- C++, Groovy, Typescript (4 yrs)
- SQL (3 yrs)
- Go/Golang, Ruby (2 yrs)

EXPERIENCE

Principal Software Engineer

October 2023 - June 2025

Norton LifeLock India Pvt. Ltd

- Drove the design and proof-of-concept for resilient CI/CD build configurations, covering both VPN and Serverless Frameworks.
- Architected and implemented a robust Infrastructure as Code (IaC) strategy using Terraform and Terragrunt, effectively provisioning and managing AWS cloud resources for VPN and serverless applications to ensure consistency, scalability, and security.
- Successfully led a VPN migration from Jenkins to TeamCity, which slashed build times by 40% and significantly improved deployment reliability through seamless cross-platform automation.

- Integrated Golang services to deploy containerized applications on ECS and EKS, leveraging its efficiency for faster binary compilation and lower memory usage, including building gRPC APIs for internal communication.
- Developed and integrated a custom Python script into the CI/CD workflow to automate security checks, proactively blocking builds with critical vulnerabilities, and enhancing overall application and Docker image security.
- Developed, deployed, and maintained high-performance, scalable serverless applications using NodeJS and TypeScript on AWS Lambda, API Gateway, and DynamoDB, with infrastructure managed via Terraform and Terragrunt for optimal environment segregation. Ensured quality with Jest for unit and integration tests.
- Conducted thorough threat modeling on AWS Serverless applications to pinpoint and mitigate potential security risks within our event-driven architectures.
- Utilized GitCopilot to significantly boost code quality and accelerate development by automating code reviews and ensuring strict coding standards across Git repositories.
- Mentored team members through the implementation and successful deployment of a scalable serverless application utilizing AWS Lambda, API Gateway, DynamoDB, and Step Functions.
- Stepped up as Scrum Master, facilitating daily stand-ups, sprint planning, retrospectives, root cause analysis, and reviews to champion continuous improvement and enhance overall team productivity.

Senior Software Engineer

May 2018 - September 2023

CN Techies Pvt. Ltd

- Developed the AntiTrack desktop application, using a Microservice Architecture and Single Sign-On (SSO) with a Node.js/React.js frontend and .NET/.NET Core/C# backend, which was adopted by over a million users, significantly improving user privacy and reducing third-party tracking by 60%.
- Engineered custom security libraries to detect obfuscated scripts and prevent data leaks, seamlessly integrating them to boost application security and performance.
- Oversaw the design and implementation of a secure Install Package Management (IPM) solution. This included developing a reusable Python tool that automated Windows installer creation for various architectures (x86, x64, ARM) and enhanced it with DSA signatures and certificates for guaranteed file integrity.
- Developed a custom Signing tool to validate, sign, and certify all third-party files and libraries, ensuring their security and integrity before integration into our systems.
- Pioneered the design and implementation of an end-to-end CI/CD build configuration for application deployment. This initiative drastically cut deployment time by 70% and reduced post-deployment bugs by 40% through automated testing, intelligent rollback strategies, and continuous integration with tools like TeamCity and Git.
- Mentored team members on the new CI/CD pipeline and the custom IPM tool, creating and documenting robust processes to ensure strong design, usability, and effective knowledge transfer across the team.

Software Developer

June 2017 - May 2018

Alchemy Information Systems Pvt. Ltd

- Developed and validated a comprehensive database schema for a successful data migration from Oracle to MS SQL
 Server, significantly enhancing data integrity and system performance.
- Architected and implemented bespoke desktop-based ERP and banking systems in close collaboration with clients, boosting reporting accuracy by 40% and cutting manual processing time by 30%.
- Engineered a Treasury Management System (TMS) for banks using C# with a SQL Server back-end, leveraging an ORM for efficient data handling and complex SQL queries to generate critical reports for customer loan portfolios.
- Engineered and refined core modules for the Magica ERP system, a robust solution managing HR, sales, and finance. Implemented data management and reporting functionalities using an ORM and advanced SQL queries.
- Designed and built a custom web application, Fifafan, using HTML and CSS, which integrated with a database via sophisticated SQL queries to manage customer data and dynamically generate exclusive FIFA World Cup tickets.

EDUCATION

B.E. Computer Science

Vishwaniketan's iMEET, Mumbai, India

Jul 2013 - May 2017

August 2025

CERTIFICATIONS

Generative AI Foundations Certificate Program

upGrad in collaboration with Microsoft

AWS DevOps Engineer September 2024

AWS Training and Certification

Architecting on AWS

August 2024

Architecting on AWS

AWS Training and Certification

AWS Technical Essentials

October 2023

AWS Training and Certification