# Jyotirmoy Bandyopadhayaya

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## Summary

Senior Software Engineer with 3+ years of experience specializing in high-performance backend architecture with a DevSecOps mindset. Expert in Go and Rust for building resilient microservices and scalable APIs. Proven ability to optimize system design, leading to a 3/4th reduction in AWS infrastructure costs.

## Education

**Lovely Professional University**, Bachelor of Technology in Computer Science and Engineering – Jalandhar, India
June 2020 to June 2024

- GPA: 7.8/10
- Major: Cyber Security

## Experience

**Software Engineer - Implementation**, LoginRadius
July 2025 to present

- Help Customer to integrate LoginRadius with their existing systems as CIAM solution.
- Worked closely with cross-functional teams to understand business requirements and translate them into technical solutions, ensuring a smooth integration process.
- Write and maintain high-quality SDKs and Documentation for LoginRadius Platform.

**Senior Software Engineer**, Engineer's Cradle
July 2024 to May 2025

- As a Founding Engineer, established best practices for CI/CD, code quality, and deployment strategies, reducing new developer onboarding time by 40% and accelerating feature delivery.
- Architected a fault-tolerant M2M authentication service in Rust, eliminating a single point of failure and ensuring 99.9% uptime for critical inter-service communication.
- Engineered a scalable GraphQL gateway in Go to handle high-traffic public APIs, implementing intelligent caching and performance monitoring to reduce P95 latency by 30%.
- Owned the end-to-end CI/CD pipeline using GitHub Actions, automating builds, testing, and deployments to achieve a 10x increase in deployment frequency with zero manual errors.
- Technologies: Rust, Go, TypeScript, AWS, GitHub Actions, PostgreSQL, Redis, Docker

**Backend Engineer**, SaaSDen
June 2023 to Nov. 2023

- Built and containerized a resilient microservice in Rust (Tokio) to handle critical API token refreshes, preventing catastrophic authentication failures and bolstering overall system reliability.
- Designed and implemented automated CI/CD workflows using GitHub Actions, which increased deployment frequency and enabled developers to ship features 50% faster.
- Technologies: Rust, Python, TypeScript, AWS, PostgreSQL, Redis, Docker

**Site Reliability Engineer**, SharpSell
Feb. 2023 to Apr. 2023

- Led a cost-optimization initiative by migrating core infrastructure from EC2 to containerized AWS ECS, slashing monthly AWS costs by 76% (from $19K$ to $4.5K$).
- Designed and maintained robust CI/CD pipelines using AWS CodePipeline, enabling hands-free, zero-downtime blue-green deployments.
- Established comprehensive monitoring and alerting for the ECS environment using CloudWatch and Prometheus, reducing Mean Time to Detection (MTTD) of production issues by 60%.
- Technologies: AWS (ECS, EC2, ECR, IAM, CodePipeline, CodeBuild), GitHub Actions, Docker, Cost Optimization

**SDE Intern**, Hybr1d
July 2022 to Dec. 2022

- Contributed to a backend migration from Ruby to TypeScript that streamlined CI/CD processes, significantly

improving application stability and deployment speed.
- Developed stateless backend services with a focus on containerization, paving the way for future scalability and migration to orchestrated environments like Kubernetes.
- Technologies: Node.js, TypeScript, PostgreSQL, Hasura, GraphQL, Docker

**DevOps Engineer**, Engineer's Cradle                                      Jan. 2021 to Jan. 2022
- Automated application deployments using Docker and GitLab CI, reducing manual engineering effort by over 90% and minimizing deployment-related errors.
- Managed AWS resource provisioning via automated scripts, establishing the foundational principles for a full Infrastructure as Code (IaC) transformation.
- Technologies: AWS, GitLab CI, Docker, Git, Bash, Deployment Planning

## Projects

**Pacsearch**                                                                              June 2024
- Developed a high-performance search engine for Arch Linux packages, indexing over 130,000 packages with sub-second query responses.
- Tech Stack: Next.js, TypeScript, Rust, GraphQL, PostgreSQL, GitHub Actions

**Zer0bin**                                                                                Apr. 2024
- A secure, server-side rendered pastebin application built with a focus on performance, security, and simplicity.
- Tech Stack: Rust, TypeScript, Vite, PostgreSQL, GraphQL, GitHub Actions

**Synode**                                                                                 June 2024
- **Won 2nd place in HackForBengal 2024.**
- An innovative payment application enabling offline transactions using AVAX Blockchain and local device communication.
- Tech Stack: TypeScript, Flutter, Dart, AWS, Cloudflare, AVAX Blockchain

## Certifications

**Certified Penetration Testing Specialist by HackTheBox**                                 July 2024

**Certified Ethical Hacker v12 by EC-Council**                                             Apr. 2024

## Skills

**Cloud Platforms:** AWS (ECS, EC2, S3, IAM, ECR, VPC, CodePipeline, CloudWatch), GCP, Azure, DigitalOcean, Cloudflare

**IaC & Orchestration:** Docker, Docker Compose, Terraform, Ansible, Kubernetes (K8s)

**CI/CD & Automation:** GitHub Actions, GitLab CI, AWS CodeBuild, Jenkins

**Observability & Monitoring:** Prometheus, Grafana, AWS CloudWatch, ELK Stack, Logging, Alerting, MTTD/MTTR

**Programming & Scripting:** Go, Rust, Python, TypeScript, Bash

**Databases & Caching:** PostgreSQL, Redis, MySQL, MongoDB

**Security:** DevSecOps Principles, OWASP Top 10, Network Security, IAM, CPTS, CEHv12