

Software Engineer

Geethaka Karunathilaka

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SUMMARY

Results-driven Software Engineer with 1+ years of experience in designing, developing, and maintaining scalable full-stack applications. Skilled in Next.js, React, Node.js, NestJS, Spring Boot, and PostgreSQL, with expertise in REST API development, database design, and modern frontend architectures. Experienced in building production-ready systems, implementing Docker-based development environments, and contributing to CI/CD automation using GitHub Actions and GitLab CI/CD. Delivered solutions across e-commerce, ERP, and business automation domains while focusing on code quality, performance optimization, and system reliability. Passionate about software engineering, cloud technologies, and improving development workflows through automation and modern engineering practices.

SKILLS

- Languages: Python | TypeScript | JavaScript | Java | SQL | Bash | PowerShell
- Frontend Engineering: Next.js | React | Tailwind CSS | ShadCN UI | Flutter
- Backend & API Design: Node.js | NestJS | Express.js | REST APIs | Spring Boot
- Databases & ORMs: PostgreSQL | MongoDB | Prisma ORM | MySQL | Oracle DB | PL/SQL
- DevOps & Infrastructure: Docker | Kubernetes | AWS | Azure Cloud
- CI/CD & Automation: GitHub Actions | Jenkins | Tekton | n8n | GitLab CI
- Security & Code Quality: Azure Key Vault | SonarQube Cloud | Veracode

EXPERIENCE

Siyoth Software, Sri Lanka • Software Engineer Intern

May 2026 — Current

- Developed and maintained full-stack web applications using **Next.js**, **Node.js**, and **PostgreSQL**, delivering scalable and maintainable software solutions.
- Designed **REST APIs**, database structures, and reusable UI components following software engineering best practices.
- Built and maintained **Docker**-based development environments while contributing to **GitHub Actions** and **GitLab CI/CD** pipelines for automated build and deployment workflows.
- Debugged and optimized application, database, and deployment issues to improve system performance and reliability.

IFS R&D, Sri Lanka • Undergraduate Trainee Software Engineer

May 2025 — May 2026

- Developed automation solutions using **Python**, **Bash**, and **n8n**, reducing manual operations by approximately 60%.
- Troubleshoot backend applications and **Jenkins** build pipelines by analyzing **APIs**, **PL/SQL**, **database interactions**, and **environment configurations** to improve CI/CD reliability and resolve production issues.
- Managed and maintained over **20** enterprise testing environments across **Windows Server**, **Linux**, **Oracle Database**, and **Kubernetes**, ensuring high availability for development and release activities.
- Served as the sole **SonarCloud** administrator across the organization, managing project onboarding, access control, issue resolution, and supporting development teams with code quality initiatives.
- Supported secure application delivery using **Azure Key Vault** and resolved critical operational issues involving SSL certificates, database corruption, storage limitations, and network connectivity.

PROJECTS

Ceylora – Luxury Gemstone E-Commerce Platform

Tech: Next.js, React, TypeScript, NestJS, PostgreSQL, Docker, Kubernetes, Cloudflare R2, Firebase Auth

- Developed a full-stack e-commerce platform with inventory, order management, and customer-facing features.
- Built a real-time jewellery inventory system with stock tracking, reservation logic, order dashboards, and automated Stock ID generation.
- Implemented image/video processing pipeline using **Sharp, FFmpeg, Multer, and Cloudflare R2**.
- Developed full-stack CMS features including CRUD management, validation, and database migrations with TypeScript.

SonarCloud Onboarding Automation

Tech: Python, Bash, PowerShell, n8n, SonarCloud

- Automated SonarCloud project onboarding and configuration workflows using **Python, Bash, PowerShell, and n8n**.
- Converted Python automation scripts into scalable n8n pipelines, improving maintainability and developer workflow efficiency.

City Express ERP System

Tech: Next.js, React, NestJS, PostgreSQL, Prisma

- Developed and maintained a full-stack ERP system for a logistics startup using **Next.js, React, Prisma, NestJS, and PostgreSQL**.
- Built frontend modules, backend APIs, and database enhancements to support business operations.
- Diagnosed application issues and improved system reliability through bug fixes and performance improvements.

EDUCATION

BEng (Hons) Software Engineering — Expected Graduation: 2028

Informatics Institute of Technology (IIT) in collaboration with University of Westminster, UK

CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900) - (Ongoing)
- Kubernetes for Absolute Beginners Kode Kloud
- Linux Foundation Certified System Administrator (LFCS) (Ongoing)
- React Essential Training