

Prateek Verma

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EXPERIENCE

Philips

Apr 2024 – Present

Software Development Engineer I

Bangalore, India

- Developed the **Ultrasound Fleet Manager** platform components, including Crossplane-based IaC and a React utilization dashboard for real-time device monitoring.
- Integrated **AWS Secrets Manager** with External Secrets Operator for secure secret delivery into EKS workloads.
- **Optimized backend APIs** with query tuning, caching, and payload reduction, improving performance by **12%**.
- Migrated frontend API calls to **TanStack Query**, enabling smoother data fetching, caching, and request deduplication.
- Enhanced the internal **developer portal** to streamline onboarding and improve developer experience.
- Created reusable **GitHub Actions** and optimized CI/CD pipelines for faster and more reliable deployments.
- Built custom **Confluence plugins** and **Backstage scaffolding templates** to automate microservice onboarding.
- Published internal Backstage plugins to **NPM** to encourage reuse across teams.
- Led deployment of the observability stack using **Helm, Kubernetes, and OpenTelemetry** in isolated namespaces.
- Instrumented services manually using OpenTelemetry SDKs (Python) to capture domain-specific metrics and traces.
- Built end-to-end **telemetry pipelines** for real-time insights into microservice performance and reliability.

Philips

Jun 2023 – Apr 2024

Software Development Intern

Bangalore, India

- Implemented full-stack features in React and Node.js for the **Backstage** Developer Portal.
- Worked on search optimizations and regular bug fixes across various **Module Federation** React Apps.

PROJECTS

Naukri Resume Action | GitHub

- Built a GitHub Action to auto-upload resumes to Naukri.com, keeping profiles active with scheduled/manual triggers.
- Supports multiple resume uploads, GitHub Secrets for credentials, and is compatible with self-hosted runners.
- Documented setup and security practices; featured in GitHub Marketplace.

Backstage Plugin: Scaffold Insight Viewer | NPM

- Developed a plugin to visualize Backstage scaffolding metadata and template usage.
- Aids engineering managers in tracking template adoption trends.
- Published as an open-source NPM package.

JSONCrack – Open Source Contribution | Link

- Fixed a critical reload crash in the Tree View by ensuring the Zustand store initializes with valid JSON (“{}”).
- Prevented null JSON parsing on page refresh, eliminating unexpected runtime errors and improving application stability.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, C++

Frontend: React, Micro Frontends (MFE)

Backend: Spring Boot, Node.js, Express.js

Cloud & DevOps: AWS (EKS, ECR, EC2, S3, Secrets Manager), Kubernetes, Helm, Crossplane, Terraform, Docker, GitHub Actions, LocalStack

Observability: OpenTelemetry (SDK & Collector), Prometheus, Grafana

Other Tools: Git, Linux, Lens

EDUCATION

Lovely Professional University

Jul 2020 – May 2024

B.Tech in Computer Science and Engineering

GPA: 8.41 / 10

SN Senior Secondary School

Jul 2018 – May 2019

Senior Secondary Education (CBSE)

Percentage: 87.20%