

# Prateek Verma

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## EXPERIENCE

<b>Philips</b> <i>Software Development Engineer I</i>	Apr 2024 – Present Bangalore, India
<ul style="list-style-type: none"><li>Developed the <b>Ultrasound Fleet Manager</b> platform components, including Crossplane-based IaC and a React utilization dashboard for real-time device monitoring.</li><li>Integrated <b>AWS Secrets Manager</b> with External Secrets Operator for secure secret delivery into EKS workloads.</li><li><b>Optimized backend APIs</b> with query tuning, caching, and payload reduction, improving performance by <b>12%</b>.</li><li>Migrated frontend API calls to <b>TanStack Query</b>, enabling smoother data fetching, caching, and request deduplication.</li><li>Enhanced the internal <b>developer portal</b> to streamline onboarding and improve developer experience.</li><li>Created reusable <b>GitHub Actions</b> and optimized CI/CD pipelines for faster and more reliable deployments.</li><li>Built custom <b>Confluence plugins</b> and <b>Backstage scaffolding templates</b> to automate microservice onboarding.</li><li>Published internal Backstage plugins to <b>NPM</b> to encourage reuse across teams.</li><li>Led deployment of the observability stack using <b>Helm, Kubernetes, and OpenTelemetry</b> in isolated namespaces.</li><li>Instrumented services manually using OpenTelemetry SDKs (Python) to capture domain-specific metrics and traces.</li><li>Built end-to-end <b>telemetry pipelines</b> for real-time insights into microservice performance and reliability.</li></ul>	
<b>Philips</b> <i>Software Development Intern</i>	Jun 2023 – Apr 2024 Bangalore, India
<ul style="list-style-type: none"><li>Implemented full-stack features in React and Node.js for the <b>Backstage</b> Developer Portal.</li><li>Worked on search optimizations and regular bug fixes across various <b>Module Federation</b> React Apps.</li></ul>	

## PROJECTS

<b>Naukri Resume Action</b>   GitHub
<ul style="list-style-type: none"><li>Built a GitHub Action to auto-upload resumes to Naukri.com, keeping profiles active with scheduled/manual triggers.</li><li>Supports multiple resume uploads, GitHub Secrets for credentials, and is compatible with self-hosted runners.</li><li>Documented setup and security practices; featured in GitHub Marketplace.</li></ul>
<b>Backstage Plugin: Scaffold Insight Viewer</b>   NPM
<ul style="list-style-type: none"><li>Developed a plugin to visualize Backstage scaffolding metadata and template usage.</li><li>Aids engineering managers in tracking template adoption trends.</li><li>Published as an open-source NPM package.</li></ul>
<b>JSONCrack – Open Source Contribution</b>   Link
<ul style="list-style-type: none"><li>Fixed a critical reload crash in the Tree View by ensuring the Zustand store initializes with valid JSON (“{}”).</li><li>Prevented null JSON parsing on page refresh, eliminating unexpected runtime errors and improving application stability.</li></ul>

## TECHNICAL SKILLS

<b>Languages:</b> Java, JavaScript, TypeScript, C++
<b>Frontend:</b> React, Micro Frontends (MFE)
<b>Backend:</b> Spring Boot, Node.js, Express.js
<b>Cloud &amp; DevOps:</b> AWS (EKS, ECR, EC2, S3, Secrets Manager), Kubernetes, Helm, Crossplane, Terraform, Docker, GitHub Actions, LocalStack
<b>Observability:</b> OpenTelemetry (SDK & Collector), Prometheus, Grafana
<b>Other Tools:</b> Git, Linux, Lens

## EDUCATION

<b>Lovely Professional University</b> <i>B.Tech in Computer Science and Engineering</i>	Jul 2020 – May 2024 GPA: 8.41 / 10
<b>SN Senior Secondary School</b> <i>Senior Secondary Education (CBSE)</i>	Jul 2018 – May 2019 Percentage: 87.20%