

Pradeep Rao K

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Technical Summary

Full stack engineer, ~2 years — Velankani, on assignment at Nokia/Infinera's optical network management product — 84 merged PRs across React and Node, tier-4 carrier escalation, two security remediations. Prior: 13+ Flask REST APIs, Gunicorn (150–200 concurrent), SQLAlchemy on 200K+ records.

Experience

Software Engineer, Velankani Software Private Limited, Electronics City, Bangalore Feb 2026 – Present
Client: Nokia (Infinera)

Project: Optical Network Management WebGUI

- Shipped 84 merged PRs in ~5.5 months on production WebGUI (React 18, Redux, Node/Express), spanning features, bug fixes, security remediations, and multi-release backports
- Built UI features including spectrum visualizer (ECharts), Ethernet Express/Regen for 100GE/400GE, OLS views for new card types, and BERT diagnostic restart flows
- Resolved tier-4 production escalation for a European carrier client, restoring provisioning workflows under SLA pressure
- Remediated two security risks: stored XSS via unsafe HTML rendering and hardcoded session secret enabling cookie forgery
- Owned release-line maintenance including branch creation and cherry-picked fixes across active release trains
- Deployed internal developer tools as Windows services (NSSM) — feature-analysis tool used by scrum master and simulator status report used by the team daily

Software Engineer, Velankani Software Private Limited, Electronics City, Bangalore July 2024 – Jan 2026

Project: Astound Broadband (Notification Service Platform)

- Awarded Manager's Award for key contributions to backend development and performance improvements in the Astound Broadband platform
- Developed 13+ REST APIs using Python (Flask) following OOP principles, covering authentication, outage management, access control, and configuration services
- Built a configurable Gunicorn-based deployment framework, enabling 150–200 concurrent requests and improving service scalability and reliability
- Optimized database performance using SQLAlchemy connection pooling, enabling efficient handling of large datasets (200K+ records)
- Load-tested the platform with Locust under high traffic and built a custom CPU/memory monitoring utility for proactive performance diagnosis

Project: NocVue (Brightspeed)

- Integrated Google Cloud Ops Agent to forward Java/Spring Boot service logs to GCP Console for centralized observability

Technologies

Languages: Python, JavaScript, SQL **Frontend:** React 18, Redux, MUI, ECharts **Backend:** Flask, Node/Express, REST, WebSockets, Jest
Database: PostgreSQL, SQLAlchemy **Tools:** Git, Bitbucket, Jira **Learning:** TypeScript, FastAPI (in progress)

Education & Certifications

NMAM Institute of Technology, Nitte — B.E. Computer Science and Engineering Dec 2020 – May 2024
GPA: 9.39/10.0 **KCNA (Kubernetes and Cloud Native Associate)** — The Linux Foundation