

Sunith Senthil K

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EDUCATION

National Institute of Technology Tiruchirappalli

Bachelor of Technology, Computer Science CGPA: 8.24

Aug 2019 – May 2023

Tiruchirappalli, India

EXPERIENCE

Oracle

July 2023 – Present

Member of Technical Staff (IC2)

Bengaluru, India

Incident Detection and Monitoring Platform | Python, Django, React, Kubernetes, Docker, GitLab CI/CD

- Enhanced and maintained an internal incident detection platform monitoring 5K+ compute instances and processing 1K incidents/month, actively used by 3 teams for real-time infrastructure monitoring
- Contributed to incident categorization and auto-assignment workflows across 50+ host classifications, improving triaging efficiency and reducing manual intervention by 20%
- Worked on backend task processing using Celery and Redis (1000+ async tasks/day), improving job reliability and execution consistency
- Resolved 15+ production issues and mitigated 8+ security vulnerabilities, reducing recurring issues by 10% and ensuring stable system operation

Application Modernization & Deployment Infrastructure | Jenkins, Helm, Kubernetes, Docker, Shell

- Built and standardized CI/CD pipelines for 30+ microservices using Jenkins, reducing deployment time by 60% and eliminating manual releases
- Contributed to migration from legacy architecture to Kubernetes-based microservices, designing Helm-driven workflows for scalable and reliable deployments
- Developed reusable pipeline templates and integrated security checks (Trivy, SonarQube), reducing configuration overhead by 30% and identifying 20+ vulnerabilities during development lifecycle

Platform Standardization & Cloud Migration | Terraform, Kubernetes, OCI, Helm, Git

- Built reusable CI/CD templates and POCs to standardize workflows for migration to internal platforms, supporting 80+ teams and 5K+ repositories
- Enabled large-scale migration to internal CI/CD and repository systems through adoption guides and hands-on support, reducing onboarding effort by 60–70%
- Developed Terraform-based provisioning and secure deployment patterns (least-privilege), improving deployment consistency and compliance

Workflow Automation via Slack Bot | Python, Serverless functions

- Built a Slack-based ticketing bot using Python and OCI Functions to automate incident creation and tracking, supporting 1000+ users and reducing manual effort by 20%

Oracle

May 2022 – July 2022

Project Intern

Bengaluru, India

- Enhanced observability for OCI Build Service (single-team owned platform supporting 7K+ daily builds used by 300+ teams) by defining and tracking 10+ KPIs
- Developed Grafana dashboards for real-time monitoring, improving visibility into system health and reducing debugging effort by 15%
- Implemented KPI-based alerting, reducing mean time to recovery (MTTR) by 10% and improving incident detection time by 20%

GuruEd

June 2021 – August 2021

Full-Stack Development Intern

- Developed a full-stack web application for course management, implementing end-to-end CRUD workflows
- Built 10+ RESTful APIs using Django and designed PostgreSQL schemas; developed frontend components using Next.js for dynamic content rendering

PROJECTS

- Petition Management System for Trichy Police** | *JavaScript, Node.js, MongoDB, Git* Oct 2020 – Feb 2021
- Developed backend APIs for a petition management system supporting complaint creation, tracking, and resolution workflows
 - Designed RESTful services using Node.js and optimized MongoDB schemas; enabled integration with mobile clients for real-time interaction
- Lynx – College News and Event Platform** | *Node.js, MongoDB, Git* Oct 2021 – Dec 2021
- Developed backend services for a campus-wide platform supporting news and event management for 5K+ users
 - Designed MongoDB data models and RESTful APIs for efficient data handling and scalable content delivery
- Real-Time Voice Distress Detection System** | *Python, Node.js, Librosa, Scikit-learn/TensorFlow* Mar 2021
- Built a voice-based distress detection system using audio feature extraction (Librosa) and ML models to classify emotions from speech signals

LEADERSHIP AND RESPONSIBILITIES

- Treasurer, Festember — NIT Trichy** Feb 2022 – Dec 2022
- Managed financial planning and budgeting for a 25K+ attendee cultural festival across 500+ colleges
 - Led operations across 45+ core members and 500+ organizers, ensuring smooth execution of large-scale events
 - Forecasted revenue and expenses, driving a 10% reduction in overall costs
- Marketing Manager, Festember — NIT Trichy** Mar 2020 – Feb 2022
- Drove corporate partnerships and sponsorship initiatives, contributing to funding and expansion of event scale
 - Engaged with brands to design and execute sponsorship strategies and on-ground branding initiatives
- Software Development Member, Spider R&D Club — NIT Trichy** Sep 2020 – Feb 2023
- Developed and maintained full-stack applications across 3+ projects, building frontend and backend components with focus on performance and reliability
 - Organized 5+ technical workshops and events, onboarding and mentoring 100+ students

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript
Backend: Django, Flask, Node.js
Frontend: React, Oracle JET, Next.js
Infrastructure & DevOps: Kubernetes, Docker, Terraform, Helm, Jenkins, OCI
Databases: PostgreSQL, MySQL, MongoDB, Redis
Monitoring: Prometheus, Grafana

CERTIFICATIONS

- Oracle Cloud Infrastructure (OCI) Architect Associate
- Oracle Cloud Infrastructure (OCI) Generative AI Professional