

Karthik Nayak

karthiknayak.in | nayakkarthik466@gmail.com | linkedin/karthiknayak98 | github/Karthik-Nayak98 | +91 9482285557

EXPERIENCE

Programmer Analyst

Sep 2020 – Present

Oracle India Private Limited

- Designed a protocol and developed a Python-based application to process emails based on subject and body, automating ticket creation, updates, and closures in the portal. This automation streamlined ticket management for internal teams and supported **40+** customers, significantly improving efficiency and response times. The Microsoft Graph API was used to interact with the Outlook email service and retrieve emails for processing.
- Automated Cloud Infrastructure Provisioning: Developed an automation system to provision databases, Linux and Windows instances in Oracle Cloud using **Terraform** and **Python**. Implemented **Ansible** playbooks for post-provision configuration, ensuring seamless setup and deployment. Successfully automated the provisioning of **100+** instances, reducing manual effort and improving operational efficiency.
- Developed a Python-based automation script runner that connects to multiple hosts (Linux, Database, Windows) via SSH and executes tasks based on a predefined workflow containing task details, ensuring efficient and consistent task execution.
- Configured and automated Full Stack Disaster Recovery (FSDR) using the OCI Python SDK, ensuring seamless failover and eliminating the need for manual synchronization between production and DR systems in Oracle Cloud Infrastructure (OCI).
- Implemented configuration management across **100+** servers using **Ansible**, reducing manual errors by **30%** and improving deployment consistency.
- Utilized the OCI Python SDK to retrieve information and manage cloud resources such as FSDR, Compute, Database, Autonomous Database, Load Balancer, VCN, and Subnet, ensuring efficient resource monitoring and maintenance.
- Developed a reusable **Python** automation library, streamlining code consistency and reducing development effort by 25%.
- Conducted thorough code reviews, promoted coding standards within the team, and mentored junior developers to improve code quality.

EDUCATION

N.M.A.M Institute of Technology

Bachelor of Engineering in Computer Science; (CGPA - 9.10)

Karnataka, India

August 2016 - June 2020

PROJECTS

Shoppay | Website, Github

- Shoppay is an e-commerce application that allows users to browse and purchase items from the shop.
- Implemented features such as add/delete products to/from cart, wishlist section, checkout & pay, authentication.
- This project has been crafted utilizing **Reactjs**, **Redux-Toolkit**, **CSS3**, **Stripe**, & **Firestore**.

TECHNICAL SKILLS

Programming & Scripting: Python, JavaScript (ES6), Shell Scripting, TypeScript, SQL

Infrastructure as Code (IaC): Terraform, YAML

Cloud & DevOps Tools: Oracle Cloud (OCI), Docker, Linux, Git, GitHub, Vim

Configuration Management: Ansible

Web Development: ReactJS, Redux-Toolkit, TailwindCSS, HTML, CSS

CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Certified Architect Associate

Certified February 2025

Oracle Cloud Infrastructure 2023 Certified Foundations Associate

Certified April 2024