Vairochan Sah | Software Engineer

Contact: +91 7088937765
Email: vairochansah2000@gmail.com
LinkedIn: https://www.linkedin.com/in/vairochan
GitHub: https://github.com/Vairochan

Skills

- **Core**: Backend Development, Algorithm implementation, Low Level Design, Linux, Scripting (Bash/Python), Network Architecture, Server Monitoring, Android development.
- **Technical**: API Development, REST, Web sockets, Authentication (SSO/ SAML), SQL, NoSQL, App Deployment, Linux, Jenkins, Ansible, CI/CD, JSON, XML, YAML, Networking (HTTPS/TCP/UPD/SNMP/ SMTP), VM/OVA/OVF, VCenter/Hypervisor.
- **Tools**: Postman, VCenter, Zabbix, Bamboo, Firebase, Jenkins, Wire-shark, Android Studio, Visual Studio Code, and Git.
- **Programming Languages**: Python, Bash, Dart, JavaScript.
- **Framework**: Django, Flutter, React, Fast API.

Work Experience

Betsol Pvt Ltd,   *June 2022 – current*

Software Engineer

- **Developed and Deployed a Scalable Monitoring Infrastructure:** Designed and implemented a robust monitoring and data collection application for Linux-based products and network devices, enhancing system observability and enabling proactive issue resolution. Leveraged Ansible to automate agent deployment and configuration, including firewall rule management and agent setup, across a large-scale Linux server environment.
- **Automated Linux System Administration with Bash:** Utilized advanced Bash scripting to automate critical system-level configurations, streamline repetitive tasks, and ensure efficient and consistent monitoring setups across extensive infrastructure deployments.
- **Implemented Real-Time Data Collection via Multiple Protocols:** Designed and implemented real-time data collection techniques using TCP connections, SNMP polls and traps, and HTTP/HTTPS protocols to gather actionable insights into hardware performance, operating system metrics, and network activity.
- **Established a CI/CD Pipeline for Monitoring Infrastructure:** Built and maintained Jenkins pipelines to automate the testing and deployment of shell and Python scripts, ensuring accurate and reliable builds for the production monitoring infrastructure and facilitating efficient integration.
- **Optimized Zabbix Proxy Deployment with OVA Templates:** Streamlined Zabbix proxy deployments by creating a customized OVA template incorporating automated Bash scripts, enabling rapid, bulk deployments via VCenter and minimizing manual intervention and rebuild efforts.
- **Python, Bash, Agile, Git:** Architected and maintained a robust inspection application using Python and bash for generating comprehensive audit reports. Worked in an Agile environment with Git version control and CI/CD pipelines.
- **RESTful APIs, Django, MVC, Authentication, WebSocket's:** Designed secure RESTful APIs in Django following MVC architecture using Python decorators for modularity; integrated OAuth protocols and advanced security measures for robust endpoint protection; and developed a multi-process architecture leveraging WebSocket's for real-time communication.
- **Microservices, Unit Testing, debugging:** Built scalable, reliable microservices and REST APIs, with comprehensive unit testing and systematic debugging practices.
- **MongoDB, Redis, NoSQL:** Enhanced application performance through optimized data management using MongoDB and Redis caching, enabling efficient real-time analytics.
- **Linux, Shell Scripts, CI/CD, Jenkins, Ansible, Authentication:** Created Linux shell scripts to automate CI/CD processes by integrating Jenkins and Ansible for seamless deployments, while ensuring that Linux-based services run properly through effective management of file permissions and system configurations.

Education

College of Engineering Roorkee.   *Roorkee*
BTech Information Technology.   *July 2018 - July 2022*

St Joseph's College   *Nainital*
XII Science   *March 2006- March 2018*