

Vairochan Sah

Software Engineer

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Summary

Software Engineer with 3+ years of hands-on experience in building scalable backend systems, real-time monitoring tools, and cross-platform mobile applications. Skilled in Python, Bash, Django, and Flutter with a proven track record of automation and performance optimization.

Skills

- **Core:** Backend Development, Low-Level Design, Linux, Algorithm Design, Scripting (Bash/Python), Server Monitoring.
- **Technical:** API Development, REST, WebSockets, OAuth/SAML, SQL, NoSQL, CI/CD, App Deployment, Networking (HTTPS/TCP/UDP/SNMP/SMTP).
- **Tools:** Postman, VCenter, Zabbix, Jenkins, Ansible, Firebase, Wireshark, Git.
- **Programming Languages:** Python, Bash, Dart, JavaScript.
- **Framework:** Django, Flutter, FastAPI, React.

Work Experience

Betsol Pvt Ltd,

Software Engineer

June 2022 – current

- **Developed and Deployed a Scalable Monitoring Infrastructure:** Designed and implemented a monitoring and data collection application for over 500+ Linux-based systems and network devices, improving system observability by 40% and enabling proactive issue resolution. Used Ansible to automate agent deployment, firewall rules, and configuration management across large-scale environments.
- **Automated Linux System Administration with Bash:** Created advanced Bash scripts to automate system configurations and routine tasks, reducing manual intervention by 60% and accelerating deployment time by 50%.
- **Implemented Real-Time Data Collection via Multi-Protocol Support:** Built real-time data pipelines using TCP, SNMP (polls and traps), and HTTP/HTTPS to extract critical metrics on hardware, OS, and network performance, enhancing system monitoring efficiency by 30%.
- **Established a CI/CD Pipeline for Monitoring Stack:** Designed and maintained Jenkins pipelines for automated testing and deployment of shell and Python scripts, improving delivery consistency and reducing deployment failures by 25%.
- **Optimized Zabbix Proxy Deployment with OVA Templates:** Created reusable OVA templates with built-in automation scripts for Zabbix proxy deployment, enabling 90% faster rollouts across virtualized environments via vCenter, significantly reducing manual setup time.
- **Django, RESTful APIs, WebSockets, Authentication:** Engineered secure REST APIs using Django with MVC architecture, integrating OAuth and custom decorators for modular security. Enabled real-time communication via WebSockets in a multi-process environment.
- **Microservices, Testing, debugging:** Developed and deployed resilient microservices, achieving 99.9% uptime, backed by unit tests and systematic debugging workflows to ensure fault tolerance and maintainability.
- **MongoDB, Redis, NoSQL:** Enhanced application throughput by 45% by integrating MongoDB for scalable data management and Redis for real-time caching and analytics.
- **Linux, CI/CD, Jenkins, Ansible, Security:** Automated deployment workflows with Jenkins and Ansible, enforced best practices for Linux services through custom shell scripts, and strengthened system reliability by maintaining proper permissions and secure configurations.

Snarweb, Sfity India LLP, Nioeye Solutions Pvt Ltd

Mobile Application Developer | Internship

Jul 2020 – Nov 2020

- Developed and maintained **6+ mobile applications** using **Flutter**, supporting diverse business models in e-commerce and services.
- Used **Bloc** and **Equatable** for scalable state management, reducing UI-related bugs by **30%** and improving code maintainability.
- Integrated **OAuth-based authentication** and third-party **payment gateways**, ensuring secure transactions and a seamless user experience.
- Implemented **push notifications** managed via an admin panel (CRM), increasing user engagement by **25%**.

- Enhanced UX with advanced UI techniques like **lazy loading (pagination)**, **shimmer effects**, and **Hero animations**, improving load times and visual appeal.
- Integrated **Google Maps API** with animated custom markers for real-time location features, boosting navigation accuracy and interactivity.
- Optimized slot booking functionality using **date-time utilities** and **real-time database sync**, resulting in a **40% improvement** in booking efficiency.

NCR Corporation India Pvt Limited

Feb 2020 - Mar 2020.

Technical Assistant | Internship

- Managed the database for the business model made by the company to monitor the flow of Cheques for Reserve Bank of India in Cheque Truncating System.
- Performing SQL Query's daily to monitor the flow of Cheques.

Awards & Achievements

Spot Award – Betsol

- Awarded for swiftly resolving critical bugs, improving system stability, and energizing the team with proactive solutions.

Above and Beyond Award – Betsol

- Recognized for outstanding contributions beyond regular responsibilities, driving impact across projects and teams.

Education

College of Engineering Roorkee.

BTech Information Technology.

Roorkee

July 2018 - July 2022

St Joseph's College

XII Science

Nainital

March 2006- March 2018