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, Web sockets, OAuth/SAML, SQL, NoSQL, CI/CD, App Deployment, Networking (HTTPS/TCP/UPD/SNMP/ SMTP).
- **Tools**: Postman, VCenter, Zabbix, Jenkins, Ansible, Firebase, Wireshark, Git.
- **Programming Languages**: Python, Bash, Dart, JavaScript.
- **Framework**: Django, Flutter, Fast API, React.

Work Experience

Betsol Pvt Ltd,   *June 2022 – current*
Software Engineer

- **Developed and Deployed a Scalable Monitoring Infrastructure**: Designed and applied 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%.
- **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, Web sockets, Authentication**: Engineered secure REST APIs using Django with MVC architecture, integrating OAuth and custom decorators for modular security. Enabled **real-time communication** via **Web sockets**, reducing system response time by 30%.
- **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   *Jul 2020 – Nov 2020*
Mobile Application Developer | Internship

- Developed and maintained **6+ mobile applications** using **Flutter**, supporting diverse business models in e-commerce and services.
- Used **Bloc** and **Equitable** 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 and seamless user transactions.
- Implemented **push notifications** managed via an admin panel (CRM), increasing user engagement by **25%**.

- **Enhanced frontend performance** by optimizing UI techniques like **lazy loading (pagination)**, **shimmer effects**, and **Hero animations**, improving page load times by 25% and boosting visual appeal.
- Built a dynamic map interface using **Google Maps API** with **custom animated markers**, improving spatial data visualization 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
Technical Assistant | Internship

Feb 2020 - Mar 2020.

- Managed the database and implemented monitoring logic for **tracking cheque flows at the Reserve Bank of India**, ensuring accuracy and compliance.
- Executed **daily SQL queries** and database checks, improving cheque processing visibility and reducing query resolution time by 20%.

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.

Team Excellence Award – Betsol
- Honoured for exemplary team collaboration, timely delivery of key product milestones, and contributing to a project that received high visibility and appreciation from senior stakeholders.

Education

College of Engineering Roorkee.
BTech Information Technology.

Roorkee
July 2018 - July 2022

St Joseph's College
XII Science

Nainital
March 2006- March 2018