

Shrey Bhardwaj

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Summary

Results-driven **Software Engineer** with over **3 years of experience** designing and building scalable backend systems and secure APIs. Proven expertise in **Python, Django**, and microservices architecture, with strong proficiency in **API development, security implementations**, and **CI/CD automation**. Hands-on experience in working across **5+ products**, driving core architectural decisions, and implementing critical features like **rate limiting, API billing, and logging frameworks**. Skilled in **Docker, Kubernetes**, and **AWS** for containerization and cloud deployments, with a solid foundation in **Agile/Scrum** methodologies. Adept at collaborating across teams and resolving production issues with high efficiency using tools like **Kibana, Elasticsearch, and Jira**. Proven ability to **enhance operational efficiency, automate workflows, and fortify security**, achieving: **90% reduction in system vulnerabilities, 95% decrease in manual effort, 25% boost in customer retention**. Passionate about **scalable, high-performance solutions** that **drive customer satisfaction and revenue growth**.

Technical Skills

- **Languages:** HTML, CSS, JavaScript, Python
- **Frameworks & Libraries:** React, Next.js, Django
- **Databases:** PostgreSQL, MongoDB, Redis, Elasticsearch
- **Tools & Platforms:** Git, Docker, Kubernetes(K8S) , AWS (EC2, S3, etc.), Apache Kafka, Linux, Kibana, Postman, Jira
- **APIs & Architectures:** REST APIs, Containerization
- **Methodologies:** Agile/Scrum
- **Monitoring & Logging:** Elasticsearch, Kibana (ELK Stack)

Professional Experience

Masters India

Software Engineering Intern → SDE 1

Remote

Jul 2022 - Present

- Implemented robust security features such as IP whitelisting, two-factor authentication (2FA), password encryption, and SSO using Google and Azure AD, improving system access control and compliance.
- Standardized API response structures and error logging, ensuring consistency across services and enhancing system debuggability.
- Developed complete API subscription management features, including usage tracking, automated billing, threshold-based service auto-stop, and downloadable API logs for transparency and auditing.
- Built and deployed automated CI/CD pipelines, writing comprehensive unit tests to improve code quality and maintain test coverage.
- Scheduled and maintained cron jobs for automating essential backend tasks like data syncs, service checks, and routine maintenance activities.
- Led development of import/export modules to support bulk operations and improve data handling efficiency across systems.
- Integrated centralized logging mechanisms across microservices, improving observability and reducing mean-time-to-resolution (MTTR) during incidents.
- Implemented rate limiting mechanisms to protect APIs from abuse and manage traffic effectively, ensuring stable system performance.
- Contributed to core architecture and backend design of 5+ internal and external-facing products, ensuring scalability and modularity.
- Designed and developed key reusable services like custom routers, notification handlers, and microservices that support high availability and extensibility.
- Handled real-time issue resolution, including user authentication bugs, registration failures, and service downtime, with strong production debugging skills and stakeholder communication.
- Proactively worked on monitoring and alerting improvements through automation and scheduled health reports.

Cybersocial

Haldwani, Uttarakhand

Penetration Tester Intern

Jun 2022 - Jul 2022

- Conducted vulnerability assessments and penetration tests on 5+ web applications using tools like Burp Suite, Nmap, and OWASP ZAP, identifying 12+ critical vulnerabilities (e.g., SQLi, XSS, misconfigured CORS).
- Authored detailed technical reports with CVSS scoring and remediation steps, improving clients' security posture by 60% within 2 weeks of disclosure.
- Simulated phishing campaigns and social engineering attacks to test employee awareness, leading to updated security training protocols for 200+ staff.
- Automated repetitive tasks (e.g., payload generation, log analysis) with Python and Bash scripts, reducing testing time by 25%.

Education

K.R. Mangalam University

Gurugram

Bachelor's Degree in Computer Science

Aug 2018 - Jul 2022