

Raspreet Singh

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SOFTWARE ENGINEER | BACK-END

A self-taught software engineer with 4 years of experience, including 2 years in the observability domain. Skilled in building scalable, high-performance applications using Python (Django) and Go, with recent experience in DevOps and Kubernetes. Having worked with systems operating at NPCI (UPI) scale, I specialize in designing high-throughput, low-latency architectures.

KEY COMPETENCIES

Python	Go	CI/CD	Docker
Django	Keycloak	Clickhouse	Postgres
DevOps	Kubernetes	AWS	Opentelemetry

PROFESSIONAL EXPERIENCE

Vunet Systems

Apr 2025 - Aug 2025

Senior Backend Developer

- Authored the Go/Python back-end for Application Workbench, a cloud-native observability orchestration module mapping 20+ heterogeneous telemetry sources into a central SQL/NoSQL layer, reducing Mean Time To Detection (MTTD) by 41%.
- Authored OmniAgent in Go, a unified observability agent replacing 12+ separate utilities with a single binary; integrated it into CI/CD pipelines for automated cross-platform compilation, reducing deployment overhead by 74% and system resource footprint by 32%.

Vunet Systems

Sep 2022 - Mar 2025

Backend Developer

- Implemented SSO and added support for MFA, LDAP, and ADFS integrations on our platform using Keycloak as an Identity provider/broker. Also, engineered custom authentication plugins for major financial institutions like NPCI and ICICI Bank, securing data for 5+ million monthly transactions.
- Redesigned and optimized a high-concurrency scheduler and alerting service by migrating from Python to Go, optimizing relational SQL database interactions and reducing memory consumption by 46%.
- Expanded alerting capabilities by integrating ITSM platforms like Jira and ServiceNow, reducing mean time to acknowledge (MTTA) for incidents by 20%.
- Developed 'vuLauncher' to automate cloud-native, Helm-based Kubernetes deployments across cloud and on-prem environments, embedding CI/CD best practices that reduced manual installation time by 10 hours per deployment.

XTEN-AV

Jun 2021 - Aug 2022

Junior Software Developer

- Engineered a proposal creation tool (XDOC) that automated Bill of Materials (BOM) generation, reducing the document turnaround time for AV designers by 54%.
 - Built a resilient data extraction engine for 17 vendors and 80+ categories, maintaining a 99% accuracy rate despite third-party API changes and ensuring a relational SQL database of 300,000+ products remained highly performant and current.
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EDUCATION

BBA

Maharaja Surajmal Institute

2020