

# Devesh Goyal

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## Education:

**Bachelors in Technology - Computer Science and Engineering** - 7.55/10

Vellore Institute of Technology • Vellore • 2020-2024

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## Professional Experience:

**Software Developer Backend@Suraasa**

*November 2024*

- **Microservices Architecture:** Architected and deployed a highly available microservices ecosystem using **Python (Django/DRF)** and **PostgreSQL**. Decoupled services using **Pub/Sub architecture** and **Debezium**, reducing system coupling and improving data consistency across distributed nodes.
- **Performance Optimization:** Engineered a custom **Sentry** issue management dashboard by reverse-engineering the Sentry API. Aggregated disparate error logs into a unified view, reducing debugging turnaround time by **40%** and cutting SaaS subscription costs by **~30%** via optimized log retention strategies.
- **Real-Time Systems:** Built a high-concurrency internal chat application using **Server-Sent Events (SSE)** and **Redis** for caching, capable of handling real-time reactions and message delivery with sub-100ms latency.
- **Data Pipelines & CRM Integration:** Orchestrated a bidirectional sync pipeline between the backend and **HubSpot CRM** using Webhooks and **Celery**. Automated data cleansing workflows for **100k+ records**, ensuring 99.9% data integrity during migration and marketing event tracking.
- **Infrastructure & CI/CD:** Managed containerized deployments using **Docker** and **Kubernetes**. Developed automated CI/CD pipelines via **GitHub Actions**, reducing deployment time by **50%** and enforcing strict testing standards before production releases.
- **Database Design:** Designed a schema-less form builder service using **MongoDB**, allowing the business team to generate highly customizable dynamic forms without engineering intervention.
- **Security:** Implemented robust authentication/authorization systems using **JWT** and Role-Based Access Control (RBAC) to secure internal APIs.

**Backend Developer Intern@Suraasa**

*Jan 2023 - Aug 2023*

- **Microservices Migration:** Engineered a **Python/Django** internal service using Google Pub/Sub to decouple monolithic structures into a dynamic, event-driven architecture.
  - **Query Optimization:** Architected complex **Django ORM** aggregations for teacher statistics dashboards, reducing report generation latency by **35%** for high-volume data.
  - **System Design:** Developed a full-stack **CRUD** application for jailer cell management, implementing **Redis** caching to ensure high data consistency and system reliability (learning project).
  - **Event-Driven Logic:** Built **asynchronous subscribers** to handle real-time user journey triggers, reducing service interdependency and improving system modularity by **30%**.
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## Projects:

**Go Bank (Cloud-Native Banking Ledger)** | *Go, Gin, gRPC, AWS, Kubernetes*

*October 2024*

- Developed a scalable banking service API using **Golang**, utilizing **gRPC** for high-performance inter-service communication and **PostgreSQL** for ACID-compliant transaction management.
- Deployed the application on **AWS EKS (Kubernetes)** with **Docker**, implementing auto-scaling policies to handle variable traffic loads.
- Integrated **Redis** for caching frequently accessed account data and **OAuth2/JWT** for secure user sessions.

**Outcome:** Achieved 99.9% uptime in stress tests and successfully modeled complex financial transaction flows (transfers, deposits, holds).

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## Skills:

**Languages:** Python, Go (Golang), C++, SQL, JavaScript, Node.js, TypeScript.

**Databases & Caching:** PostgreSQL, MongoDB, Redis.

**Concepts:** Microservices, Pub/Sub, REST API, gRPC, JWT Auth, Data Structures & Algorithms.