

Nikhil Badyal

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SUMMARY

- **Senior Software Engineer with 3+ years of experience:** Specialized in building scalable backend systems, multi-tenant SaaS architecture, and cloud infrastructure. Proven expertise in API development, ETL pipelines, DevOps, and Elasticsearch. Strong open source contributor with a focus on performance, reliability, and automation. Delivered solutions that improved system performance by **90%** and reduced costs by **35%**.

EDUCATION

- **Jadavpur University** Kolkata, India
Bachelor of Engineering in Computer Science and Engineering; GPA: 8.5 July 2018 – July 2022
 - **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Distributed Computing
 - **Honors:** Graduated with Distinction
- **Jawahar Navodaya Vidyalaya** JandK, India
Senior Secondary; Percentage: 95% Nov 2011 – June 2018

EXPERIENCE

- **Anchanto** Remote, India
Senior Software Engineer Feb 2024 – Present
 - **Multi-Tenant Architecture Lead:** Led migration from single-tenant to multi-tenant SaaS platform, supporting **100+ customers**, achieving **35%** cost reduction and **50%** reduced downtime.
 - **Tooling Development:** Created **EsXport**, an open-source Elasticsearch data extraction tool reducing export times by **90%**.
 - **Feature Development:** Built whitelabeled branded URLs, enabling custom domains and boosting customer satisfaction by **20%**.
 - **Centralized Logging System:** Implemented ELK-based logging pipeline handling **600GB+** daily logs, accelerating issue resolution by reducing MTTR by **40%**.
 - **Team Leadership and Mentorship:** Mentored developers through sprint planning, code reviews, and architectural guidance, increasing productivity and software quality.
- **Anchanto** Remote, India
Software Engineer May 2022 – Feb 2024
 - **API Development:** Optimized **50+** APIs handling **20M+** daily requests, managing **100M+** parcels and **5B+** events. Maintained **90%+** test coverage.
 - **System Designer:** Designed efficient database schemas enabling real-time tracking and searches across millions of parcels.
 - **ETL Engineer:** Developed ETL pipelines handling **5B+** records from **100+** carriers, enhancing parcel tracking and integration efficiency.
 - **Cloud Infrastructure Engineer:** Managed cloud infrastructure, achieving **30%** cost reduction and maintaining **99.99%** SLA.
 - **Data Tooling Engineer:** Built **Esyncer**, a tool syncing SQL data to Elasticsearch for faster search capabilities.
 - **Performance Engineer:** Reduced query response from **30 sec** to **2 ms** by optimizing Elasticsearch integration and replication for **100M+** parcels.
 - **DevOps Engineer:** Dockerized infrastructure reducing setup time from days to hours, enhancing environment consistency and scalability.
- **Anchanto** Remote, India
Software Engineering Intern Jan 2022 – May 2022
 - **Backend & ETL Engineer:** Developed **10+** APIs, optimized data transformation scripts handling **10M** parcels and **100M** events.
 - **CI/CD Pipeline Automation:** Implemented automated CI/CD pipelines, reducing deployment from days to minutes and ensuring consistent, reliable deliveries.

AWARDS AND RECOGNITION

- **Anchanto Innovation Challenge Winner – Operational Efficiency (2024):** Recognized for building a **low-code integration engine** that significantly accelerated the development of carrier integrations. By using JSON-based configurations to define data sources, processing rules, and destinations, we eliminated repetitive coding and achieved faster deployment cycles, improving integration time-to-market and operational scalability.

PROJECTS

- **Esxport:** Open-source Python tool to efficiently export Elasticsearch indices into CSV files, significantly reducing export time. [GitHub]
- **PGExtras:** Unofficial Python port of Heroku's pgextras, providing detailed statistics and analytics for PostgreSQL instances. [GitHub]
- **Cloudflare Worker Analytics Tracker:** Serverless analytics logging system built using Cloudflare Workers, with advanced data sanitization, security features, and rate limiting. [GitHub]
- **VaultSync:** Automated backup solution for Bitwarden vaults supporting multi-cloud storage, featuring a backend API (FastAPI) and intuitive web UI (React + Vite). [GitHub]
- **Release Tracker:** Multi-platform software release monitoring tool that tracks updates from GitHub, GitLab, PyPI, APKMirror, and more with smart notifications. [GitHub]
- **Telegram Channel Scraper:** Python-based scraper that concurrently downloads and filters files from Telegram channels, integrated with Cloudflare R2 for scalable cloud storage. [GitHub]
- **Notion Backup:** Modular Python tool to automatically backup Notion workspaces with cloud integration and extensive notification support across 70+ services. [GitHub]
- **Docker Py Revanced:** Simplified one-click Python utility for building Revanced Android applications using Docker. [GitHub]
- **KeepNotes:** Cross-platform note-taking app with a clean UI built using Flutter and Dart. [GitHub]
- **Tg-TOTP:** Telegram bot for generating secure temporary 2FA tokens directly within chat. [GitHub]
- **Capstone: Movie Review Sentiment Analyzer:** Built a scalable MLOps pipeline using MLflow for experiment tracking, DVC for data versioning, and FastAPI for real-time model serving. Ensured reproducibility and efficient deployment. [GitHub]

TECHNOLOGIES SUMMARY

Languages: Python, C++, SQL, Dart

Frameworks: Django, Flutter

DevOps: Docker, GitHub Actions, Git

MLOps: MLflow, DVC

Other Tools: Cloudflare Workers, CI/CD Pipelines

Databases: PostgreSQL, Redis, Elasticsearch

Cloud Platforms: AWS (EC2, S3, RDS, IAM)

Infrastructure as Code: AWS CloudFormation

Monitoring/Reverse Proxy: ELK Stack, Nginx