Sanjay Baskaran

+1 (303) 944 5351 · sanjaybaskaran.dev · sanjay.baskaran6@gmail.com · linkedin.com/in/sanjayb-28 · github.com/sanjayb-28

PROFESSIONAL SUMMARY

Software Engineer with 3+ years building full-stack web applications and cloud-native systems. Skilled in designing APIs and backend services, deploying and scaling applications on cloud infrastructure, and automating delivery with CI/CD. Focused on reliability, performance, and user impact across the lifecycle.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, Shell
Frameworks & APIs: Node.js, Express, FastAPI, React, Next.js, Tailwind CSS, gRPC, OpenAPI, GraphQL, WebSockets
Data & Messaging: MongoDB, PostgreSQL, Redis, Neo4j, Kafka, Pub/Sub patterns, Snowflake
Cloud & Infrastructure: AWS (ECS/Fargate, Lambda, EC2, ALB, S3, RDS, CloudFront), Google Cloud, Firebase, Docker, Kubernetes, Nginx, Terraform, Ansible
Tooling: GitLab, Jenkins, CI/CD, Git, Maven, JUnit, SonarQube, Linux, Prometheus, Grafana

WORK EXPERIENCE

Untitled Inc.   CO, USA
Founding Engineer   *Dec 2025 - Present*

- Migrated a legacy film platform (**Pug/Express** + **Knockout.js**) to a **Next.js (App Router)** media stack with **Mux** ingest/playback + **webhooks**, **Cloudinary** asset pipeline, and **MongoDB/Prisma** domain modeling, improving **Core Web Vitals** (**LCP** down **40%**, **CLS** near-zero) and increasing average watch time by **68%** (**Mux analytics**).
- Productionized the platform on **AWS** by containerizing the **Next.js** app, deploying it on **ECS Fargate** behind an **ALB**, automating **CI/CD** with environment-scoped configuration, and implementing idempotent **Mux/Mailgun webhooks** with **DB-backed event-ID deduplication** for reliable media processing and notifications.

Rule4   CO, USA
Software Engineer, Platform   *Aug 2025 - Present*

- Designed and implemented an AI-assisted ticket creation feature for Rule4's TFOX platform using **Python**, **Django 4**, **MySQL**, and a managed **RAG** stack on **AWS** (**Bedrock** text embeddings and LLM, **OpenSearch** vector search).
- Built end-to-end retrieval and prompt pipelines that scope historical tickets by client and queue, perform vector similarity search, and generate draft ticket fields while meeting a **2.5s P95** end-to-end latency target.

Adobe Inc.   Bengaluru, India
Software Development Engineer   *Jul 2022 - Jun 2024*

- Developed and optimized **backend services** in a modular service architecture, improving request handling and server-rendered performance and increasing **Lighthouse Performance** scores by **30%** across core user flows.
- Implemented headless content delivery by exposing structured content and metadata via **REST** and **GraphQL** APIs, enabling analytics and personalization integrations and reducing manual integration effort by **80%**.
- Built a reproducible CI/CD pipeline with **GitLab CI** + **Maven**, adding **JUnit** automated tests, **SonarQube** quality gates, and **Docker**ized build environments to reduce configuration drift and improve release cadence by **35%**.
- Implemented request-level observability using **structured logs**, **correlation IDs**, and **latency/error metrics**, adding production dashboards and alerts that reduced incident triage time by **30%** through root-cause isolation.

PROJECTS

- **ContainrLab**, Browser-based container lab platform with real-time terminals, automated grading, and an AI lab assistant for guided hints; built with **Next.js, FastAPI,** and **WebSockets** and **Docker-in-Docker** for isolated per-session containers; deployed on **AWS** (**ECS/Fargate**, **Auto Scaling**, **Route 53**, **ACM**) with **CI/CD**. GitHub
- **CloudArena**, Cloud security exercise platform built with **FastAPI, Celery + Redis,** and **Terraform** to provision sandbox environments, run Stratus-style simulations, and generate **MITRE ATT&CK**-mapped findings with remediation reports using **Gemini**. GitHub

EDUCATION

University of Colorado Boulder   Boulder, CO, USA
Master of Science in Computer Science (GPA: 3.97/4.00)   *Aug 2024 - May 2026*
Vellore Institute of Technology   Vellore, TN, India
Bachelor of Technology in Information Technology (GPA: 8.7/10.0)   *Jul 2018 - May 2022*