

Nishit De

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PROFESSIONAL SUMMARY

- Full-stack software engineer with over 4 years of experience.
- Specializing in backend systems, data streaming, and cloud-native apps.
- Skilled in Java, Python, Ruby, Go, and SQL.
- Experienced with Spring Boot, Ruby on Rails, and microservices.
- Proficient in CI/CD, Docker, Terraform, and shell scripting.
- Strong debugging and observability skills.

EXPERIENCE

Oracle

Senior Member of Technical Staff

Nashville, TN

Oct 2025 - Present

- Manage the lifecycle of millions of **virtual machine (VM)** and **bare-metal (BM)** instances across global OCI regions.
- Enhanced **resource orchestration logic** to improve instance provisioning success rates, utilizing distributed locking mechanisms and fine-tuned consistency models to handle high-concurrency API requests.
- Led development to delivery of features using **Terraform** and **internal OCI frameworks**, enabling seamless, zero-downtime patching and firmware updates for underlying host infrastructure.
- Optimized **telemetry** and **observability** pipelines for Compute services, reducing time-to-detect (TTD) for regional outages by integrating advanced health-check metrics and real-time alerting.
- Helped junior engineers through code reviews and design document critiques, ensuring adherence to OCI's **security-first SDLC** and **high-availability** architecture standards.

Atelio by FIS

Software Development Engineer [Platform]

Seattle, WA

Oct 2024 - Sept 2025

- Bootstrapped **Case Manager microservice** from scratch, building modular Spring Boot architecture, RESTful APIs, and test suites.
- Delivered production-ready MVP in 2 months, estimated to support 5K+ cases/month initially.
- Built stream processing system for **88M+ monthly transactions** across 3 tenants, implementing distributed Kinesis workers achieving **40 TPS** with auto-scaled peak throughput of **75 TPS**.
- Enabled scalable case handling of cases, using PostgreSQL CDC and Kinesis pipeline with zero data loss.
- Led migration of core services (CaseService, AttachmentService, AlertService) from DynamoDB to PostgreSQL, implementing relational joins and **Hibernate ORM** mappings across alerts, transactions, and cases.
- Designed layered encryption for PCI-compliant case data using AWS KMS, reducing P95 latency from over 500ms to close to 200ms via a unified envelope encryption strategy.
- Implemented auto-scaling Kinesis workers with shard rebalancing and sub-15s failover recovery across 5 instances, handling dynamic loads from **40 to 160 TPS/tenant**.
- Created CI/CD automation using ECR, ECS, and ALB with shell scripting, reducing manual deployment time from 20 minutes to under 2 minutes for a 10+ dev team.
- Implemented authentication and authorization service used across Atelio services using **Auth0's Management API**, supporting integration with Azure AD and external identity providers.
- Utilized **gRPC** for performant inter-service communication and **Redis with TTL logic** to reduce authorization request latency and improve service responsiveness.
- Authored complete runbooks across sandbox/dev/UAT/prod stages to enable streamlined on-call resolution for stream, deployment, and database issues.

Checkr, Inc.

Software Engineer II

San Francisco, CA

Jan 2022 - June 2024

- Developed and maintained scalable web applications and microservices using Ruby, Go, React, and Ruby on Rails, **launching two key background screening** products that drove approximately **\$4.3M** in additional annual revenue and expanded market reach in Canada and the healthcare industry.
- Built **International Motor Vehicle Report** screening product targeting the Canadian gig-based industry, contributing approximately **\$4M in annual revenue**.
- Created a **Healthcare Sanctions Search** screening, adding approximately **\$300k in quarterly revenue** for Medicare and Medicaid compliance.
- Spearheaded an A/B testing initiative to improve an automated employment screening system by logging user events in **Amplitude** and iterating on product changes, resulting in significantly higher user engagement.
- Incorporated the **GPT-4 Turbo LLM** into screening workflows, reducing QA involvement by **36%** and cutting turnaround time from a day to under **15 minutes**.
- Wrote automation scripts using **zsh** to streamline access to **Vault** and navigation of **Kubernetes** pods, reducing manual effort and improving developer workflows.
- Developed **public APIs** and optimized features for critical screening services, including **International Criminal Search, Education Verification, Professional License Verification (PLV), Fraud and Abuse Control Information System (FACIS), and Reference Checks**, to fit industry needs and standards.
- Contributed to design and architecture discussions, ensuring scalability and alignment with agile and SDLC best practices.
- Participated in code reviews and debugging to ensure high-quality, maintainable code.
- Implemented comprehensive unit tests to improve code stability and prevent regressions.

TECHNICAL SKILLS

- **Languages:** Python, Ruby, Go, Java, JavaScript, TypeScript, SQL, NoSQL, Shell (zsh/bash)
- **Frameworks:** Spring Boot, Ruby on Rails, ReactJS, NextJS, Angular, Node
- **Cloud/Infra:** AWS (S3, EC2, ECS, ECR, ALB, Kinesis, KMS, Aurora RDS, DynamoDB), Terraform, Docker, PostgreSQL
- **Streaming/DB Tools:** AWS Kinesis, PostgreSQL CDC, Snowflake
- **Software and Tools:** Git, Jupyter Notebook, Amplitude, Keycloak
- **Operating Systems:** Windows, Linux, MacOS

EDUCATION

Trine University

Master of Science in Information Science

Phoenix, AZ

July 2024 - Present

Drexel University

Master of Science in Computer Science

Philadelphia, PA

Sept 2019 - Jun 2021

University of Mumbai

Bachelor of Engineering in Computer Engineering

Mumbai, INDIA

July 2015 - May 2019