

Utkarsh Mittal

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SUMMARY

Software engineer completing M.S. in Computer Engineering at NYU (May 2026), with prior full-time backend experience at Dell Technologies and recent internships at Nokia and an AI/ESG startup. Strengths in distributed microservices (.NET, Spring Boot), AWS Lambda + Bedrock LLM pipelines, and shipping production systems handling 500K+ daily transactions. Targeting new-grad Software Engineer roles in backend, distributed systems, and AI infrastructure.

EDUCATION

New York University

Master of Science in Computer Engineering

New York, NY

Sep 2024 – May 2026

Shiv Nadar University

Bachelor of Technology in Computer Science and Engineering

India

Jul 2016 – May 2020

EXPERIENCE

Nokia

Software Development Co-op

Murray Hill, NJ

Jan 2026 – May 2026

- Shipped an experimental Bandwidth Scheduler for Nokia WaveSuite in Spring Boot, React/Redux, and Oracle DB, replacing a manual reservation workflow for advance allocation of optical network capacity.
- Modeled real-world optical constraints like path conflicts, wavelength contention, and 1+1 protection rules, into a normalized data model and REST API, eliminating an entire class of double-booking errors caught in testing.
- Converted tribal domain rules from network engineers into deterministic backend validations and contract tests, replacing ambiguous spec hand-offs and unblocking sign-off from 5 stakeholder teams.

Locomex Inc.

Software Developer Intern

New York, NY

Jun 2025 – Dec 2025

- Built AWS Lambda + Bedrock (Anthropic Claude) pipelines that auto-generate ESG feedback across E, S, and G pillars, cutting manual analyst review time by 60%.
- Integrated Lambda with PostgreSQL on AWS RDS to serve structured JSON metric and sector-benchmark responses in under 1.5s, sustaining 100+ daily dashboard sessions.
- Designed SASB/IFRS-aligned prompt chains and KPI coverage checks, achieving 100% ESG KPI coverage across onboarded pilot companies and replacing ad-hoc manual scoring.

Dell Technologies

Software Engineer II

Bangalore, India

Oct 2021 – Aug 2024

- Architected backend services for a distributed inventory platform serving internal users and channel partners, accelerating feature delivery from quarterly to bi-weekly and tightening coordination across interconnected microservices.
- Owned root-cause analysis on 15+ Sev-1 production incidents and shipped durable fixes, reducing recurring outages by 40% in a high-reliability environment.
- Re-engineered hot paths in C#/.NET microservices, lifting throughput by 37% and unlocking 500K+ additional daily transactions without horizontal scale-out.
- Introduced Microsoft Orleans-based distributed caching in front of MSSQL, offloading hot queries and improving response time on critical endpoints under peak load by ~70%.
- Standardized code-review checklists, test gates, and design-doc templates; pre-release defect detection rose 25% and cross-team onboarding ramp shortened by 32%.

Software Engineer I

Jul 2020 – Oct 2021

- Migrated 15+ legacy modules to .NET microservices and React frontends, cutting latency by 22% and lifting deployment frequency by 60%.
- Implemented RabbitMQ-based asynchronous event flows that decoupled services, increasing throughput and removing a recurring backpressure failure pattern under load.
- Shipped modular React micro-frontends with a shared component library, raising reuse across 5-8 applications and enabling independent deploys biweekly with lower release risk.
- Improved end-to-end responsiveness of internal tools by 23% via SQL query tuning, REST batching, and front-end render optimization.

TECHNICAL SKILLS

Languages: Java, Python, C#, SQL, JavaScript, Typescript, HTML/CSS

Frameworks: Spring Boot, React, Redux, Node.js, Next.js, Flask, Django, .NET, Orleans, JUnit, FastAPI, Streamlit

Data & Messaging: PostgreSQL, MSSQL, MySQL, Oracle, Supabase, RabbitMQ, Kafka, Redis

Practices: Microservices, REST API, Distributed Systems, System Design, Performance Optimization, Code Review, Agile/Scrum

DevOps: AWS (Lambda, Bedrock, RDS, S3), Google Cloud Platform, Docker, CI/CD (TravisCI, GitHub Actions), Vercel, Render, Splunk, Grafana, Prometheus, New Relic, Dynatrace

AI/LLM: AWS Bedrock, Claude, LangChain, Hugging Face, Jina AI, Groq, Prompt Engineering, GitHub Copilot, Cursor