Nisheet Das

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SUMMARY

Backend focused Full Stack Engineer with 5 years of zero-to-one engineering ownership, designing and scaling mission-critical services. Adept in responsive designs, caching architectures and cross-functional delivery across product and engineering.

EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Master of Information Systems Management - Specialization in Software Engineering, **GPA: 4.0/4**   August 2025
- Coursework: *Machine Learning, Deep Learning, AI Engineering and MLOps, Distributed Systems, Object Oriented Programming in Java, Database Management Systems, Linear Programming, Agile Methods, Data Structures and Algorithms*

Delhi Technological University (Formerly Delhi College of Engineering)   **New Delhi, India**
Bachelor of Technology in Electrical Engineering, **GPA: 3.78/4 (First Class with Distinction)**   June 2019

PROFESSIONAL EXPERIENCE

Cure.fit - Fitness Tech Unicorn   **Bangalore, India**
Full Stack Software Engineer - E-Commerce   June 2019 - July 2024
- Designed and led the integration of Cult.sport into an internal telesales platform, including product modeling, discount logic, customer lifecycle management, and telesales agent UI, driving a **10%** revenue increase.
- Cross-functioned with central payments team to implement a multi-tenant delayed/failed payments and fulfillment processor, addressing payment gateway webhook delays/failures. Increased conversion rates by **3.9%** and net revenue by **0.8%**.
- Optimized system performance by building a caching service, onboarding in-memory caches for multiple micro-services. Led to **30%** drop in database load, lower infrastructure costs and ~**20%** faster server startup times through AWS Lambda triggers.
- Built a web scraping scheduler engine to extract **10,000+ SKUs daily** from marketplaces using webscraper.io and SmartProxy, saving ~**3 days/week of manual effort by 3 analysts** and accelerating pricing decisions and catalog quality.
- Redesigned address management flows for Cult.sport, adding features like address editing, auto-completion, location detection, and order confirmation, reducing order cancellations by **8%** and increasing addresses added per user by **1.6**.
- Drove a strategic initiative to deploy low-code tools Appsmith and Retool on EC2 instances within a secure VPC with VPN-only access, integrating with internal services to power **100+ critical dashboards** and cutting development time by ~**80%**.
- Integrated MoEngage on Cult.sport for personalized event-driven CRM interactions, supporting ~**1M** daily user communications and **1M** website events. Enabled two-way interaction with internal services using SQS, handling ~**100k** daily events.
- Migrated critical endpoints from Node.js Backend-for-Frontend (BFF) to Spring Boot reducing latency from **350ms** to ~**100ms**.
- Led frontend development of Food Marketplace app from scratch using **React Native and Redux**; built **Node.js/TypeScript** backend supporting orders, taxes, discounts, and user feedback, onboarding **200+ vendors** and **50k+ users** within 6 months.
- Developed responsive mobile screens in React Native and integrated with a Node.js Backend-for-Frontend (BFF) using Inversify.js and TypeScript, ensuring user data privacy and security through minimal and controlled data exposure.

SKILLS

- **Languages:** Java, Python, SQL, JavaScript, Typescript, HTML, CSS, Bash (Shell), C++
- **Frameworks/Libraries:** Spring Boot, React, React Native, Redux, Node.js, Express.js, Gulp, PM2, JUnit, Nose2, Jest
- **Databases/Tools:** MySQL, PostgreSQL, MongoDB, Redis, Maven, NPM, GCP, AWS, Docker, Kubernetes, Kafka, Coralogix, Splunk, JWT, OAuth, Datadog, JIRA, Postman, git
- **Others:** Software Development Life Cycle (SDLC), Agile Principles, Stakeholder Management, Test Driven Development (TDD)

ACADEMIC PROJECTS

AI Sentiment Analysis Platform - CMU & Harley-Davidson Collaboration
- Developed a Django app using Hugging Face, PyTorch, NumPy and pandas for automated sentiment analysis of comments.
- Containerized the application with **Docker** and delivered a production-ready image for Harley-Davidson's internal deployment.

Movie Recommender System
- Deployed Django application on a VM with load balancer using Docker containerization and SQLite DB serving **1M users**.
- Automated **CI/CD** pipelines with Jenkins for deployment and implemented **Kubernetes-based blue-green deployments**; configured GitHub Actions for pull request test automation using Nose2.
- Integrated collaborative filtering model with telemetry (**Prometheus, Grafana**) to monitor model drift, automate retraining, and dynamically update model weights from Docker-mounted volumes.

Goal Keeper (GoalLive)
- Implemented a **Streamlit**-based Python application to identify user's free time slots using Google Calendar API.
- Recommended football matches, nearby restaurants (via geolocation and Yelp API), and online match streaming options.
- Scraped match schedules using **Selenium** headless browser (Chrome) driver and improved performance through caching.