Naman Chaturvedi

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PROFESSIONAL SUMMARY

B.Tech Computer Science Engineering student specializing in backend development, distributed systems, and cloud-based application architecture. **AWS Certified Cloud Practitioner (CLF-C02)** and **AWS Certified Solutions Architect – Associate (SAA-C03)** with hands-on experience designing and implementing secure RESTful APIs, scalable microservice-based platforms, and containerized deployments using Spring Boot, Next.js, PostgreSQL, and Docker. Strong focus on API security, database optimization, authentication mechanisms, and production-ready cloud infrastructure.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C++
Backend & Web Development: Spring Boot, Next.js, React JS, Node.js, React Native, RESTful API Development, JWT Authentication, Role-Based Access Control (RBAC), Microservices Architecture
Databases & ORM: PostgreSQL, MySQL, MongoDB, Prisma ORM, SQL Query Optimization, Relational DB Design
Cloud & DevOps: AWS (EC2, S3, IAM, VPC), Docker Containerization, Supabase, Cloudflare Tunnels, ngrok, Git
Automation & Workflow Engineering: n8n Automation, Webhook Integration, Workflow Orchestration, Event-Driven Architecture
Data Analytics & Visualization: Python (Pandas), ETL Pipelines, Tableau, Power BI

PROJECTS

AutoOps – Automation Control & Audit Platform | *Spring Boot, PostgreSQL, React Native, N8N, Docker*
- Designed and developed a role-based automation control platform using Spring Boot and React Native with JWT-based authentication and RBAC authorization.
- Implemented complete workflow lifecycle management including execution triggering, state transitions (PENDING, SUCCESS, FAILED), and PostgreSQL-backed persistence.
- Developed secure RESTful APIs using Spring Security and `@PreAuthorize` annotations to enforce access control policies.
- Built centralized audit logging and execution metrics tracking for monitoring workflow performance and system reliability.
- Integrated n8n automation engine via webhook-based communication while maintaining separation of concerns between application and automation layers.

Customer Support Automation Platform | *Spring Boot, PostgreSQL, React Native, NLP, n8n, Docker*
- Architected and developed a chatbot-driven customer support automation platform enabling structured ticket creation, conversational issue capture, and end-to-end lifecycle tracking through a centralized system.
- Implemented secure JWT-based authentication and role-based access control (RBAC) using Spring Security to support multi-department administrative management and controlled ticket access.
- Designed a rule-based NLP classification engine to perform intent detection, priority assignment, and dynamic ticket routing to relevant departments for streamlined resolution workflows.
- Integrated n8n workflow automation for real-time high-priority alert notifications, incorporating duplicate event detection logic and state-based execution handling.
- Developed comprehensive admin and user dashboards for ticket monitoring, status transitions, resolution tracking, and containerized application deployment using Docker for environment consistency.

Finovate – Finance Management Platform | *Next.js, TypeScript, Prisma, Supabase, Clerk, Arcjet, Inngest*
- Developed a full-stack finance management application enabling custom account creation, transaction tracking, and budget monitoring through interactive dashboards.
- Integrated AI-based receipt processing for automated expense categorization and data extraction.
- Implemented event-driven budget monitoring workflows using Inngest for threshold-based notifications and automated monthly reports.
- Configured secure user authentication via Clerk and managed relational schema migrations using Prisma ORM with Supabase connection pooling for scalable database operations.
- Optimized backend API request handling and relational data queries to ensure efficient transaction processing and consistent dashboard performance under concurrent user interactions.

InfraLens – Data Analytics & Automated Monitoring System | *Python, PostgreSQL, Tableau, N8N, Docker*
- Designed and implemented a data analytics pipeline using Python (Pandas) and PostgreSQL for large-scale COVID dataset processing and transformation.
- Developed advanced SQL queries for mortality trend analysis, vaccination impact comparison, and statistical reporting.
- Created interactive Tableau dashboards featuring geographic visualizations and comparative analytics.
- Implemented automated monitoring workflows using n8n with severity-based alert classification and scheduled execution.
- Configured SMTP-based notification services and containerized deployment using Docker for environment consistency.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (SAA-C03) – Designing scalable and secure AWS architectures.
- AWS Certified Cloud Practitioner (CLF-C02) – Core AWS services and cloud fundamentals.

EXTRA-CURRICULAR

- Secured 3rd place in an inter-college weightlifting championship (75kg category) among 50+ participants.
- Served on the Ground Staff Team for annual college fest Advitya, managing crowd coordination and event logistics.
- Selected as Discipline Minister in Class X, responsible for maintaining student discipline and supporting school event coordination.

EDUCATION

VIT Bhopal University
*B.Tech in Computer Science and Engineering — E-Commerce – **CGPA: 8.4***

Sophia Senior Secondary School
*Class XII – **81.4%**   —   Class X – **82.2%***