

Aarnav Singh

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SUMMARY

Full-Stack Developer (React/TypeScript, Node.js/Express, SQL Server/PostgreSQL/MongoDB) delivering production webapps end-to-end with clean REST APIs, strong data models, and secure auth (OTP/JWT, RBAC) integrated with Microsoft Graph. Expert in enterprise workflows (multi-level approvals, audit logs), PDF/Excel automation (ExcelJS, pdf-lib), and robust file handling (Multer). DevOps & security: CI/CD (GitHub Actions), Docker, Vercel/Render/Windows Server, TLS/SSL (wildcard), CORS/Helmet/CSP/HSTS, diagnostics/monitoring, and cron jobs. Known for shipping reliably, hardening systems under real-world constraints (DNS/NAT/reverse proxy), and delivering polished UIs (Tailwind, shadcn/Radix) that teams actually use.

WORK EXPERIENCE

Aug 2024 - Present

Full-Stack Developer, Premier Energies

- Shipped 10+ production apps across Sales/QA/Logistics/Procurement/IT (React + TypeScript, Node.js/Express, SQL Server/MongoDB) deployed on Azure/AWS (VM/App Service, Blob/S3, CDN) and Vercel/Render behind NGINX; 300+ internal users, 99.9% uptime, 20–30 releases/quarter.
- Designed REST/GraphQL APIs with OpenAPI (Swagger); normalized schemas (composite keys, FKs), idempotent ETL via bulk upserts/validations; introduced pagination/caching (Redis) → p95 latency ↓ ~40%, data defects ↓ ~80%, 25k+ rows/import sustained.
- Hardened auth with OTP/JWT + Azure AD (Entra ID) OAuth2/OIDC, RBAC, field-level audit logs; Microsoft Graph workflows for approvals/alerts/docs → manual email ops ↓ ~90%, SSO adoption ~100%.
- Created flexible multi-level approvals (QAP & BOM) with diff-tracking, reason capture, immutable history; automated PDF/Excel (ExcelJS, pdf-lib) to Azure Blob/AWS S3 → cycle time ↓ ~45%, rework ↓ ~30%.
- Frontend at scale: React (Vite, React Query, React Hook Form + Zod), Tailwind + shadcn/Radix, Chart.js/Recharts → Lighthouse ≥95, p95 page load ↓ ~30%, WCAG 2.1 AA compliance.
- Production hardening on Windows Server + cloud edge: NGINX/Traefik reverse proxy, wildcard TLS/SSL, DNS/NAT, Azure Front Door/CloudFront CDN; CSP/HSTS/Helmet/CORS, health/readiness probes, diagnostics endpoints → incidents ↓ ~35%.
- DevOps & reliability: GitHub Actions CI/CD (build/test/security scans, Docker), blue-green deploys, cron/Azure Functions/Lambda jobs, Terraform (IaC), structured logging, Prometheus/Grafana + Sentry → 99.9% uptime, MTTR ↓ ~38%, change failure rate <5%.
- Cross-functional delivery: converted ambiguous asks into PRDs/runbooks/SLAs; 2-week cadence, measurable ops wins (time-to-value ↓ ~50%, internal NPS +18), clear ownership and stakeholder sign-off.

EDUCATION

Bachelor of Science in Computer Science

Sep 2019 - Dec 2023

Concordia University Saint Paul

- GPA 3.7/4.0, Graduated Magna Cum Laude
- Deans List Honoree (All semesters), Undergraduate Policy Committee and Student Senate member, President of the Indian Student Association, & Intramural Basketball Champion

ADDITIONAL INFORMATION

- Core stack: React, TypeScript, Node.js, Express, MSSQL/SQL Server, PostgreSQL, MongoDB, REST APIs, GraphQL — OpenAPI/Swagger, Redis, structured JSON logging, OpenTelemetry, Jest.
- Frontend/UI: Tailwind CSS, shadcn/Radix UI, accessibility & responsive design, form validation, error/empty/loading states — Playwright/Cypress e2e, Sentry browser telemetry.
- DevOps & Security: GitHub Actions (CI/CD), Docker, Vercel, Render, Windows Server/VM, TLS/SSL (wildcard), CORS, Helmet, CSP, HSTS, diagnostics/health checks, cron jobs — Azure App Service/AWS EC2, NGINX reverse proxy, Front Door/CloudFront CDN, Key Vault/Secrets Manager, WAF, OpenTelemetry traces + structured JSON logs to Grafana/CloudWatch; CI coverage gates.
- Data & architecture: Schema design, composite keys, referential integrity, idempotent ingestion, pagination/filtering, caching layers, file handling & large uploads — Redis caching, Azure Blob/AWS S3 (presigned/multipart), JSON ETL logs; Jest integration tests.
- Selected internal projects: LEAF, SPOT, QAP, CertifyPro, Warehouse Optimizer — deployed on Azure/AWS; Application Insights/CloudWatch dashboards; Playwright smoke tests.
- Tooling: Git/GitHub, VS Code, Postman, Figma, PowerShell/Bash — Newman (CI), ESLint/Prettier, SonarQube, k6; OpenAPI/Swagger generators.