DIVYA PATEL (he/him)

BACKEND & CLOUD ENGINEER

Portfolio: divypatel.in

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SUMMARY

Backend & Cloud Engineer with 3+ years designing and running production systems on AWS. At Refy9, main contributor to the AWS Infrastructure as Code (Terraform) and lead developer of OKKAI's core Node.js/TypeScript API: serverless APIs, caching with Redis, CI/CD, observability and self-hosted LLMs.

PROFESSIONAL EXPERIENCE

Backend & Cloud Engineer | Refy9

Feb 2026 – Present

Product: OKKAI, an AI fashion stylist and digital wardrobe platform (mobile and web)

- **Lead developer** of the core Node.js/TypeScript API (Express 5, Sequelize, Zod-generated OpenAPI, JWT + Google OAuth via a Lambda authorizer, SQS jobs); co-develop the admin API and Next.js dashboard.
- Run 45+ Lambda functions with GitHub Actions CI/CD that redeploys only the functions a change affects; cut **cold starts to under 2 s** and stabilised Aurora connections with a shared PgBouncer pool.
- Built caching into the core API, with Redis as the shared cache in front of Aurora PostgreSQL.
- Maintain the Terraform for the **whole AWS account** as its main contributor and one of two reviewers; hardened IAM (per-developer keys, rotation) and made Aurora private behind an SSM bastion.
- Prepared OKKAI for Google's **CASA security assessment** (restricted Gmail scopes): rate limiting, audit logging, ClamAV scanning of uploads, SSH opened only to CI runners, and a 54-point server checklist.
- Built Google sign-in and Gmail/Calendar consent (offline tokens, scope checks) and connected it to the wardrobe-import and calendar-based styling services.
- Set up and run the EC2 servers for the AI team's services (deploy CI, Docker, Nginx) and built their **Grafana dashboards and alerts**, with Grafana Alloy agents shipping metrics and logs to Prometheus and Loki.
- Set up a **self-hosted Gemma LLM** on RunPod GPUs with the AI team (vLLM, OpenAI-compatible API), cutting third-party AI API costs.
- Built the **notification service** on Firebase Cloud Messaging (500-recipient bulk sends, 140 notification types, frequency caps, EventBridge scheduling) and WhatsApp OTP via the Meta Cloud API.
- Built the first **Communities backend** (SQS FIFO event feed, REST API, API Gateway WebSocket chat) and tested all 144 API endpoints against live dev, fixing 4 bugs.

Full-Stack Developer | Blisslers Technolabs LLP

Feb 2024 – Jan 2026

- Built production backends for client products in golf training, ad-tech, carbon credits, EV lifecycle and fuel monitoring with Node.js, TypeScript, Express, MongoDB and PostgreSQL (key projects on page 2).
- Designed **serverless, event-driven microservices** on AWS (Lambda, API Gateway, EventBridge, SQS, RDS) and handled deployments and CI/CD for client releases.

Freelance Developer | Self-employed

Feb 2023 – Jan 2024

- Delivered small web projects during college and redesigned the TweeFeed Chrome extension's interface, adding brand settings to the extension and its website (Plasmo, Next.js, TypeScript).

EDUCATION

Master of Science in Information Technology (part-time) — Aug 2024 – May 2026
Ganpat University · CGPA 7.74/10

Bachelor of Science in Information Technology — Jul 2021 – Jun 2024
Ganpat University · CGPA 7.85/10

SKILLS

AWS: Lambda, API Gateway, EC2, VPC, S3, Aurora PostgreSQL, SQS, EventBridge, CloudFront, WAF, Route 53, IAM, Secrets Manager, SES

IaC & CI/CD: Terraform (Infrastructure as Code), GitHub Actions, Docker, Nginx

Backend & system design: Serverless, event-driven microservices, Node.js, TypeScript, JavaScript, Express.js, REST APIs, OpenAPI, Zod, Sequelize (ORM), JWT, OAuth 2.0, WebSockets, MQTT

Observability: Grafana, Prometheus, Loki, Grafana Alloy

Security: IAM hardening, rate limiting, audit logging, ClamAV upload scanning, SSM bastion access

Databases & caching: PostgreSQL, MongoDB, Redis, PgBouncer

LLM serving: vLLM, Gemma, RunPod (GPU), OpenAI-compatible APIs

Integrations: Gmail & Google Calendar APIs, Firebase Cloud Messaging, Meta WhatsApp Cloud API

Frontend: React.js, Next.js, TanStack Query, Tailwind CSS

KEY PROJECTS

Golf Daddy

golfdaddy.com

A golf training and gaming platform that connects players and coaches.

- Developed the APIs behind the Coach Portal and User App.
- Designed serverless microservices on AWS: Lambda, API Gateway, EventBridge, SQS and RDS.
- Implemented event-driven workflows and dynamic notifications for gameplay and session updates.

Tech: Node.js, TypeScript, Aurora PostgreSQL, AWS Lambda, API Gateway, EventBridge, SQS, RDS, Amazon S3

E4RTH

fore4rth.com

A platform that rewards environmental action through carbon certificates.

- Built REST APIs for user onboarding, project registration and certificate tracking.
- Integrated third-party services to verify and manage carbon credits.
- Modelled the database for projects, credits and users.

Tech: Node.js, Express.js, MongoDB, Amazon S3

AdUP

A Chrome extension that replaces the New Tab page with dynamic content and ads.

- Built the admin portal and backend for users, ads and real-time analytics.
- Integrated the Google Ads / AdSense APIs, with dashboards for earnings, impressions and clicks.
- Added JWT authentication with role-based access; stored user and extension data in MongoDB.

Tech: Node.js, TypeScript, Express.js, MongoDB, React.js, Plasmo

GREEN_EV

A multi-role CRM that manages the full lifecycle of electric vehicles.

- Built the entire backend for 5 roles: Admin, Dealer, Service Station, Manufacturer and EV Owner.
- Developed role-based APIs for inventory, bookings, servicing, billing and ticketing.
- Created modules for reporting, real-time status updates and lifecycle tracking.

Tech: Node.js, TypeScript, Express.js, MongoDB, React.js

Petrol Pump

A real-time monitoring system for fuel dispensers.

- Ingested live dispenser data over MQTT and recorded every transaction automatically.
- Built real-time dashboards for fuel and transactions, plus PDF reports and billing.
- Added role-based user and admin management.

Tech: Node.js, TypeScript, Express.js, MQTT, MongoDB, React.js