

Kunal Ninawe

Seattle, WA, 98109 | ninawekunal@gmail.com | (347) 866-9713

github.com/ninawekunal | linkedin.com/in/ninawekunal/ | ninawekunal.github.io/portfolio/

Full-stack Development | Frontend Development | Backend Development | Applied AI Engineering

CORE SKILLS

Frontend	React, TypeScript , Next.js, MobX, Redux, Zod, Lazy-loading, accessibility/responsive UI, Jest/Cypress, SSR/SPA.
Backend	Node.js (Hapi), Kotlin, Java , Python, Spring Boot, REST/GraphQL , gRPC, SQL, Postgres.
Cloud & DevOps	Docker, Kubernetes , CI/CD, AWS (<i>EC2, ECS, Lambda, S3, Kinesis</i>), Redis, Kafka, Message Queues.
Applied AI	OpenAI, Codex, Claude code, prompt engineering, context-window/token optimization & RAG Pipelines.

PROFESSIONAL EXPERIENCE

Expedia Group, Seattle, WA | Software Engineer II May 2022 – April 2026

Identity and Access Engineering (Core Ownership)

- Owned end-to-end delivery of partner identity workflows (*Login, MFA, email/password reset, account disable*) using **React**, **TypeScript**, & **GraphQL** across 6+ teams, shipping OAuth 2.0/OIDC flows with ACR elevation and data-driven feature-flag rollouts to **~100K partners (90% adoption)**, reducing MFA toll fraud and **resolving 45%** of identity inconsistencies.
- Owned the Update Email feature end-to-end: shipped the EPC release, discovered ~4-5% of global users had shared traveler/partner accounts risking lockout, then designed a **Change-Data-Capture pipeline** with downstream brand teams and deployed async API fixes + monitoring to mitigate impact.
- Scoped the System Design for shared Account Disabling experience layer across partner and traveler portals, collaborating with Product and Design on both sides to define metrics, support flows, and portal-specific help pages.

Architecture, Reliability & Scalability

- Led production releases for 5+ microservices on AWS/Kubernetes** via CI/CD with Spinnaker, progressive rollouts, feature flags, and secure secret management — *reducing deployment incidents by ~25%*.
- Contributed to an org-level secrets migration to HashiCorp Vault for ~200 applications, proactively building automation scripts that accelerated the effort.
- Built 94% unit test coverage (Jest) and E2E suites (Cypress)**, including a Gmail-in-Cypress integration to simulate real multi-system OTP login flows in CI.
- Served as L3 on-call SME, *diagnosing production incidents* via Splunk and Datadog, authoring RCA docs that reduced recurring support requests by ~20%.

Product Innovation (Hackathon – AI Travel UX)

- Co-led a company **hackathon** prototyping festival-based travel inspiration with React/TypeScript, AI-generated itineraries (*LLM*), map integrations, and cultural event carousels — pitched to Product & XD leadership.

Global Traffic Technologies, Minneapolis, MN | Full Stack Engineer June 2021 – April 2022

- Built scalable backend APIs and batch workflows using Agile/Scrum techniques on **Python**, AWS Lambda, ECS, and API Gateway with cost-optimized architecture and design documentation.
- Reduced latency by migrating DynamoDB to ElastiCache (Redis), automating infrastructure with CloudFormation, and building an async logging pipeline with Kinesis Firehose, S3, and CloudWatch.

TECHNICAL PROJECTS

AgentPortal (*Next.js/React, API Routes, Postgres*) March 2026

Shipped a full-stack prototype with Supabase OAuth, automated invoice extraction, and [PDF source-field highlighting](#) — deployed via CI/CD on Vercel. Incrementally converting it into embeddings / Agentic System using RAG pipelines.

Animal Shelter Notification System (Volunteer) (*AWS Lambda, EventBridge, PostgreSQL, React*) April 2026

Building a token-optimized data pipeline for an animal shelter (PAWS): scheduled **cron jobs** on **Lambda** match prospective adopters to animals by preference, & sending email notifications from a **PostgreSQL** source of truth with a React admin UI.

EDUCATION

New York University, New York, NY | Master of Science, Computer Engineering May 2021

Coursework: Data Structures & Algorithms, Cloud Computing, Distributed Systems, Internet Protocols, Machine & Deep Learning.

University of Mumbai, Mumbai, India | Bachelor of Science, Computer and Information Science July 2019