ANVAR GENZHALIEV

Full-Stack Developer

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SUMMARY

Full-stack developer with 7+ years of experience in React, Node.js/Express and JavaScript/TypeScript, currently building subscription payment systems (NMI, CyberSource, PayPal, Apple Pay, Google Pay) and serverless data pipelines on AWS. Finance degree, plus hands-on experience deploying full-stack applications to AWS with Kubernetes (EKS), Terraform and GitHub Actions.

EXPERIENCE

Full Stack Developer, Innovative Metrics Sep 2022 – Present

- Built end-to-end payments for two customer-facing subscription products using NMI (including Apple Pay and Google Pay), CyberSource and PayPal: tiered subscriptions, one-time upgrades, tokenized saved cards, refunds, and webhook-driven payment status updates.
- Made payments reliable: prevented duplicate charges with client-side submit locking plus a server-side transaction check before every charge, and automated failed-renewal handling with scheduled retries, customer emails, and access suspension after the final attempt.
- Built serverless business logic on AWS Lambda, invoked by the Node.js web server and on cron schedules: payment webhook handling, transactional emails through SES, report generation and file processing. Deployed with AWS CDK.
- Built an AWS Step Functions pipeline that ingests partner-uploaded NDJSON files of hundreds of MB: parses and validates each record, extracts the required fields, stores the results in S3, and records the object keys in MySQL for lookup.
- Implemented CCPA privacy request handling: identity-verified data-access requests answered with an automatically generated PDF report sent by email, and verified account deletion that removes all of the user's data from company systems.
- Built internal tools in React and Chart.js: an admin dashboard (users, subscriptions, payments, revenue) with role-based access for the CEO, marketing, media buyers and developers, and a customer-support CRM for refunds and subscription management. They replaced ad-hoc data requests to developers.
- Built an automated SMS re-engagement system on TextRequest for users who sign up but don't complete checkout, with a campaign analytics dashboard for the marketing team. Integrated Meta and Google Ads tracking pixels for media buyers.
- Built authentication for customer-facing apps (email sign-up and login, Google and Facebook social login) and role-based permissions for internal tools.
- Modernized legacy React front ends: migrated class components to hooks, upgraded to React 18/19, replaced legacy CSS with Material UI and styled-components, and improved load times with webpack optimization and lazy loading.
- Optimized Node.js/Express REST APIs with query rewrites, indexing, Redis caching and pagination. Set up Sentry error tracking and monitored production with CloudWatch and Grafana.

Freelance Web Developer Aug 2019 – Aug 2022

Small-business clients

- Migrated a client's multi-page website into a React single-page app.
- Built customer-facing web apps and checkout flows with Stripe payments, social media logins and third-party REST API integrations.
- Built Node.js REST APIs with MySQL and MongoDB, including reporting APIs for a client's internal analytics team.
- Built iOS apps in Swift (UIKit, MapKit, Core Data, Firebase), including a GPS running tracker and a messaging app.

PROJECTS

FinFlow: multi-tenant budget and expense platform (personal project)

Code and architecture walkthrough available on request

- Full-stack SaaS app: Next.js 16 (App Router), TypeScript, Express v5, PostgreSQL with Drizzle ORM, Redis/BullMQ background jobs, and Socket.io real-time budget alerts. Org-based RBAC (owner/admin/member/viewer) and expense approval workflows.
- Auth and security: JWT with rotating refresh tokens (hashed, with reuse detection that revokes the whole token family), Google OAuth, Zod validation, and Redis-backed rate limiting. Ran a security audit and fixed 12 of 13 findings, including origin verification behind CloudFront, non-root containers, and org-scoped authorization for S3 receipt downloads.
- Defined all AWS infrastructure in Terraform: VPC, EKS, RDS, ElastiCache, S3, CloudFront + WAF, Secrets Manager, IRSA roles and an SSM-only bastion. Kubernetes workloads with HPA, Cluster Autoscaler and NetworkPolicies.
- GitHub Actions CI/CD with OIDC (no long-lived AWS keys), SHA-pinned actions, secret scanning (gitleaks), a dependency audit gate, and a Kubernetes Job for database migrations. Tested with Vitest and Supertest.

SKILLS

Languages: JavaScript, TypeScript, SQL, HTML/CSS, Swift

Front end: React (18/19), Next.js, Redux, Material UI, styled-components, Tailwind CSS, Chart.js, Figma

Back end: Node.js, Express, REST APIs, PostgreSQL, MySQL, MongoDB, Redis, BullMQ, Socket.io, Drizzle ORM

Cloud & DevOps: AWS (Lambda, Step Functions, S3, SQS, SES, EKS, RDS, ElastiCache, CloudFront, WAF, IAM, CloudWatch, Secrets Manager), AWS CDK, Terraform, Kubernetes, Docker, GitHub Actions

Payments: NMI, CyberSource, PayPal, Stripe, Apple Pay, Google Pay

Testing & monitoring: Vitest, Supertest, Sentry, Grafana

EDUCATION

Bachelor's Degree in Finance, International Banking Institute, Saint Petersburg, Russia · 2014