

Pranjul Kalsi

+91 8082945814 | pranjulkalsi@gmail.com | [Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

PROFESSIONAL SUMMARY

Software Engineer building event-driven, serverless and microservices-based solutions with Go, TypeScript & AWS in fast-paced startup environments. Passionate about delivering end-to-end solutions throughout the product lifecycle.

WORK EXPERIENCE

Software Engineer

Feb 2023 - Present

Seven Prosper Soft Labs

Onboarding Backend

- Collaborated & developed a performant backend service in **Go** to streamline customer onboarding across multiple channels
- Designed and deployed scalable RESTful APIs for order creation, agreement generation, & referral management, improving onboarding efficiency by 35%; Documented using **Swagger**, performed stress testing with **k6** to ensure high reliability
- Integrated KRA APIs to Validate PAN & KYC status, Implemented robust fallback mechanisms to ensure uninterrupted service
- Implemented CI/CD using AWS CodePipeline with staged deployments & blue-green strategy for zero-downtime updates

Sales Event System

- Achieved a **96%** reduction in man-hours by developing an **event-driven** backend solution to automate sales event setup & enrollment management, orchestrating **EventBridge**, **SQS**, **SNS** & **Lambda** for fault-tolerant workflow automation
- Boosted webinar participation by **32%** through automated reminder system with dynamical personalized campaigns

Regime Recommender Tool

- Captured 35000+** leads by developing a free to use Tax Regime Recommender tool while minimising **lead cost**, Incorporated **AWS API Gateway** to handle incoming POST requests, followed by data validation, processing & error-handling strategies
- Engineered loosely coupled **AWS Lambda** functions for parallel tax calculations, offer generation & automated campaign processing, leveraging **SQS queues** for reliable batch operations & **DynamoDB** for request tracking & rate limiting

Financial Planning Backend

- Optimized **input validation** layer to handle diverse financial data types for stricter type checking and data sanitization
- Designed **PostgreSQL** schemas for user portfolios, implementing indexes & migrations for maintainability & performance
- Implemented aggregation & projection algorithms for summaries, portfolio insights, risk profiling & cashflow analysis

PROJECTS

ShortRelay | [GitHub](#) | [Live](#)

Dec 2024 - Feb 2025

Event-driven serverless video processing pipeline for short-form video processing & delivery

- API Gateway** orchestrates user auth, asset lifecycle & tracking with DynamoDB storing metadata & state changes
- pub/sub: **S3** emits event notifications to **SQS**; Lambda consumers process messages with DLQ/retry for async operations
- consumers: built with **TypeScript/Node.js** process messages for asset validation, worker task orchestration & completion
- Fargate** Workers built with **Go** use **FFmpeg** for video transcoding & generation of HLS adaptive bitrate streaming manifests
- Completely Built on AWS using **SAM (IaC)** for a cost-effective, autoscaling infrastructure with CI/CD using **CodePipeline**

AuthX | [GitHub](#)

Aug 2025 - Sept 2025

Go-based auth & authorization service inspired by AWS Cognito, with APIs, gRPC, and RBAC.

- Go-based **APIs** & **gRPC** handle user authentication, JWT session management, OTP flow, pool management & **RBAC**
- Postgres** stores user data with **migration** support & **Redis** manages session state, with retry & failover support for reliability
- Containerized with **Docker Compose** for production, including automated key generation & **CI/CD-ready** infrastructure

TECHNICAL SKILLS

Development: Go, Typescript, Node.js, REST, Postman, OpenAPI, VS Code, YAML, Jest, AWS SDK, Linux

Database: PostgreSQL (CRUD, Schema Design, Migrations, Indexing), DynamoDB (transactions, Key-Value Cache)

AWS: Lambda, ECS, API Gateway, S3, SQS, SNS, EventBridge, VPC, CloudWatch, SES, Cognito, CloudFront, CLI

CI/CD: Git, Docker, Docker Compose, AWS Codebuild, AWS CodePipeline, AWS CloudFormation, IaC (AWS SAM)

HLD: Event-Driven(Pub/Sub, Queues, Processing), Serverless(Triggers, Chaining, State, Concurrency), API Gateway

LLD: API Design, Design Patterns, Authentication, RBAC, Rate Limiting, Error Handling, Input Validation, Logging

EDUCATION

Thapar Institute of Engineering & Technology

Sep 2021

Bachelor of Engineering in Computer Engineering