

Agnav P

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Career objective

Software Engineer specializing in backend and cloud-native application development with professional experience building AI-powered marketing automation and SaaS platforms. Skilled in TypeScript, NestJS, PostgreSQL, AWS, and distributed system design. Experienced in developing scalable APIs, event-driven workflows, payment integrations, and production-grade software.

Education

APJ Abdul Kalam Technological University, B-Tech in Computer Science 2021 – 2025
• CGPA [S8]: 8.15/10.0

Professional Experience

Backend Engineer | DiarchGo June 2026 - Oct 2026

- Engineered transaction-safe order, delivery, inventory, and refund workflows using NestJS, TypeScript, MongoDB transactions, conditional updates, and bounded retries to prevent inconsistent state transitions and duplicate inventory restoration.
- Built Redis-backed BullMQ workers and scheduled reconciliation to recover stale refund jobs, using a 60-second sweep interval and a 10-minute stale-job threshold.
- Developed two administrative delivery recovery APIs with JWT authentication, role-based access control across four operational roles, and auditable actor attribution, replacing reliance on a one-hour scheduled cancellation cycle.
- Implemented refund eligibility validation against order balances and existing refund records, preventing concurrent refund requests from exceeding refundable amounts.
- Redesigned push notification workflows integrated with Socket.IO real-time events, improving Android notification delivery from 20% to 90% and iOS delivery from 0% to 80%.
- Decoupled notifications and real-time event emission from committed database operations, isolating communication failures from critical business transactions across a live quick-commerce platform with 50K+ downloads.

Junior Software Engineer | Sipify Apps Private Limited Sep 2025 - May 2026

- Architected and developed backend services for a marketing automation platform using NestJS, TypeScript, PostgreSQL, DynamoDB, AWS SQS, and Lambda.
- Built event-driven AI workflows integrating Google Gemini and Meta Marketing APIs to generate, validate, and manage audience targeting data.
- Designed multi-database systems and domain validation frameworks that enforced complex advertising business rules and improved platform reliability.
- Implemented OAuth 2.0 onboarding and token lifecycle management for large-scale Meta account integrations.
- Engineered ledger-based payment and credit infrastructure integrating Stripe and Razorpay with idempotent transaction processing and reconciliation.
- Developed production-grade Next.js applications with complex state management, authentication, and real-time operational workflows.

Projects

Telegram Bot to Automate QR Code Generation github.com/telegram-bot
• Developed a Python-based Telegram bot that integrates with external services using HTTP requests, retrieves

user-specific data, and generates QR codes for secure, scannable access.

- Designed a modular backend architecture separating API requests, user management, and bot logic, ensuring maintainability and scalability.
- Automated the entire workflow of daily data retrieval, processing, and QR code generation using scheduled cron jobs, ensuring users consistently received updated information without manual intervention.
- Deployed the application on Render Cloud, with health checks to monitor reliability and uptime.

Chrome Extension to Automate Downloads

github.com/playsnap

- Created a Chrome extension to automate the download of JioSaavn songs during streaming for a smooth and efficient user experience.
- Designed a system to monitor and analyze HTTP requests in real-time, extracting song titles and playlists for automated downloads.
- Intercepted JioSaavn's API endpoints, processed responses to extract encrypted media URLs and song metadata, and transformed them into actionable data for tailored song downloads.
- Designed an efficient architecture that combines scripting, event listeners, and Chrome-specific APIs for seamless automation and stable operation.

Skills

- **Programming Languages** : TypeScript, JavaScript, Python, SQL, C
- **Backend Technologies** : NestJS, Node.js, Express.js, REST APIs, OAuth 2.0
- **Frontend Technologies** : Next.js, React.js, React Query, Zustand, HTML, CSS
- **Databases & Storage** : PostgreSQL, DynamoDB,
- **Cloud & Devops** : AWS Lambda, AWS SQS, AWS Amplify, Git, GitHub, CI/CD, Linux
- **AI & Integrations** : Google Gemini API, Meta Marketing API, Stripe, Razorpay
- **Additional Skills**: Problem Solving, Debugging, Technical Documentation, Cross-Functional Collaboration, Agile Development, Rapid Learning & Adaptability