

PADMANABHAN SRIDHAR

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EDUCATION

BITS Pilani, K.K. Birla Goa Campus — B.Tech, Electronics and Instrumentation

July 2023 – May 2027

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, C++, Dart

Backend & Data: Node.js, Express, NestJS, Spring Boot, FastAPI, Django, PostgreSQL, MongoDB, Redis, Prisma, Pinecone

Frontend: React 18, Next.js, React Query, Flutter

Cloud & Infra: AWS (S3, EC2, CloudFront), GCP (Cloud Run, Pub/Sub, Cloud Tasks), Azure, Docker, GitHub Actions, Firebase

Systems & Tools: Linux, GDB, Git, OpenAI API, Socket.io, Celery, Sentry

EXPERIENCE

Software Engineer Intern — Cisco

May 2026 – July 2026

C, C++, NX-OS, Linux Shell, GDB

- **Triaged 100+ ACLQoS memory-safety findings** across NX-OS server and libapi components by tracing allocation ownership, cleanup contracts, and failure paths, confirming ~60% as genuine leaks and clearing the rest as false positives or init-order issues.
- **Collapsed a 10-step manual repro into a single triggered workflow** that built component binaries with BAT, staged them on Nexus line cards, and validated behavior on live switches via CLI triggers, logs, and core collection; applied to 60%+ of confirmed bugs.
- **Fixed and validated cleanup defects** in destination allocation and parse-context lifecycle handling, verifying leak behavior across success and failure exits with GDB and BingoPy heap analysis.
- **Authored a reusable line-card binary replacement runbook** covering artifact discovery, bootflash staging, MD5 verification, reload validation, and rollback cleanup.

Founding Software Engineer Intern — GetInStartups (Remote)

Sept 2025 – Mar 2026

Next.js, Node.js, Express, Supabase, AWS S3, Redis, Docker, Azure, GitHub Actions

- **Onboarded 200+ companies and 1,500+ candidates** onto a multi-portal job marketplace: 4 Next.js apps on a shared Express REST API with 46 endpoints, 10+ data models, and JWT-based RBAC across 3 roles.
- **Processed 3,000+ applications** through a pipeline covering job CRUD, status tracking, company approval and moderation queues, OTP password reset, and automated email notifications.
- **Cut resume access to sub-200ms for 500+ stored files** by replacing server-side file proxying with direct S3 presigned uploads, removing Node.js as a bottleneck for binary transfers.
- **Shipped 5 containerized services** through GitHub Actions CI/CD into staging and production slots on Azure App Service, hardened with Key Vault secrets, Zod-validated env schemas, rate-limited auth endpoints, Redis caching, and Sentry monitoring.

Founding Software Engineer Intern — Jiffy (Remote)

Oct 2024 – Apr 2025

Flutter, Riverpod, Firebase, Spring Boot, FastAPI, OpenAI API, Pinecone, Redis

- **Cut P95 match-fetch latency from ~2s to sub-100ms across 30K+ vectors** by encoding user personas as 1536-dimension OpenAI embeddings in Pinecone and pre-computing suggestion sets in a batched cron job.
- **Architected a 28-screen Flutter app** with 35 code-generated Riverpod StateNotifiers and GoRouter across 29 auth-guarded routes, enforcing immutable state and eliminating provider leaks via ref.onDispose cleanup.
- **Built a token-level SSE streaming chat** synchronized against Firestore listeners with optimistic updates and retry UI, over a 5-layer Dio interceptor chain (auth, backoff retry, token refresh, error normalization, logging).

PROJECTS

BXLenz 2.0 (Freelance) — HIPAA-compliant healthcare platform

React 18, Express, Prisma, GCP

- **Architected a 49-model Prisma/PostgreSQL schema and 45-route-group Express API** behind a 23-module React 18 frontend on Cloud Run, routing all database access through a 48-service domain layer.
- **Closed a PHI leak pattern that had shipped twice** by enforcing POST-body-only identifying-field search, audit-logging middleware on every PHI-touching route, and jose JWT + RBAC gating.
- **Tuned 82 query hooks and lazy-loaded 70 components** (60s staleTime floor, focus-refetch disabled), replacing sequential awaits with Promise.all batching to eliminate N+1 patterns on the highest-traffic pages.

CodeSync — technical interview platform | [GitHub](#)

Next.js, Node.js, GetStream, MongoDB

- **Supported 50+ concurrent interview sessions** in live use by BITS Pilani's placement cell, serving 248 users across 3 roles with real-time video/audio and a syntax-highlighted mock coding editor.

Playto Payout Engine — merchant payout system | [GitHub](#)

Django, PostgreSQL, Celery, Redis

- **Verified a double-entry ledger with 10 tests** including a concurrency test asserting exactly one of two simultaneous duplicate payouts succeeds, using PostgreSQL row locks and idempotency constraints to prevent double-spends.

POSITION OF RESPONSIBILITY

Chief Coordinator — Developers' Society, BITS Goa

May 2025 – May 2026

- **Shipped an in-house campus payment system processing ₹1.2 Cr+ across 3 fests**, letting students spend their semester SWD balance directly on event registrations and stalls.
- **Led 50+ developers across 4 verticals** (App & Web, Game Dev, AI/ML, UI/UX), owning core repositories and review standards across handovers.