

Omprakash Narayanan Lakshmanan

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SUMMARY

Senior Full-Stack Engineer with over 6 years of experience building and scaling production web applications using **Node.js, Angular, .NET**. Expert in **Clean Architecture (SOLID/DDD)** and data intelligence, with a proven track record of optimizing data ingestion engines and reducing system latency by 94%. Specialized in transforming complex, disconnected datasets into "single source of truth" platforms within highly regulated healthcare and finance sectors.

EXPERIENCE

Medpace | Software Engineer II | Cincinnati, US

July 2023 – October 2025

- Architected a self-service questionnaire engine for Site Feasibility using **Angular and .NET**, eliminating manual developer intervention and reducing ServiceNow ticket volume.
- Reduced internal dashboard load times from 50s to 3s (**94% improvement**) through backend logic refactoring and SQL tuning.
- Managed full lifecycle from requirements to launch, using **Bicep (IaC)** for Azure setup and integrating **Adobe Sign API**.

Propel Technology Group | Senior Software Developer | Chennai, India

July 2020 – December 2021

- Built **.NET Core/MassTransit microservices** for **PCTEL** to ingest high-frequency XML telemetry via **Azure Service Bus**, ensuring 99.9% data persistence.
- Optimized data flow using **CQRS and stream-parsing** to separate high-write telemetry from analytics, maintaining sub-second dashboard latency.
- Developed **GraphQL APIs** and an Amazon S3 tool with resumable uploads and 2FA, improving reliability for field engineering teams.

Orion Innovation | Software Developer | Chennai, India

July 2017 – May 2020

- Developed a document-routing engine for Deloitte using **Angular and .NET** to automate international travel compliance for global employees.
- Achieved **4x faster load times** using AOT and lazy loading while securing sensitive data through custom authorization guards.
- Mentored 10+ junior developers in Angular web standards, clean code practices, and architectural documentation.

PROJECTS

Tumbleweed (Multi-tenant SaaS) | <https://app.tumbleweed.digital/>

- Architected a scalable multi-tenant backend using **Node.js (NestJS) and TypeScript**, leveraging Clean Architecture (SOLID/DDD) to manage complex business logic.
- Implemented Dependency Injection and modular patterns to ensure TDD-readiness and maintainable codebases in a fast-paced environment.
- Integrated **Stripe API and Supabase** for secure authentication and subscription management.

Shortly (High-Performance URL Shortener) | <https://short-ly-delta.vercel.app/>

- Engineered a high-concurrency microservice in **Go** to handle URL redirection with sub-millisecond latency.
- Integrated **Redis with a Token Bucket rate-limiter** to prevent system exhaustion and ensure stability during traffic spikes.
- Designed a persistent data layer using **PostgreSQL** with optimized indexing for rapid lookups.

BrandCraft (3D Branding Tool) | <https://brand-craft.vercel.app>

- Developed a specialized 3D tool using React, Three.js, and R3F for real-time application of logos/textures onto 3D models.
- Implemented turntable animation exports and dynamic lighting configurations to provide high-fidelity branding previews.

SKILLS

Languages	TypeScript, JavaScript, C#, Go, SQL, GraphQL
Backend	Node.js (NestJS/Express), .NET Core, Microservices, CQRS, Mass Transit, RESTful APIs
Frontend	Angular, Next.js, React, NgRx, Three.js (R3F), Tailwind CSS
Architecture & Patterns	SOLID, DDD, Clean Architecture, TDD, Dependency Injection, Async Messaging
Cloud & DevOps	Azure (Bicep/IaC), AWS, Docker, Github Actions
Databases	PostgreSQL, Redis, MongoDB, MS SQL Server, Azure Cosmos DB

EDUCATION

MS in Computer Science – Purdue University

January 2022 – May 2023

GPA: 4.0/ 4.0

BE in Electronics and Communication Engineering – Anna University, India

August 2013 – May 2017

GPA: 8.29/10.0