

# 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

- |   |                                  |
|---|----------------------------------|
| <b>Medpace</b>   Software Engineer II   Cincinnati, US  | <b>July 2023 – October 2025</b>  |
| • Architected a self-service questionnaire engine for Site Feasibility using <b>Angular and .NET</b> , eliminating manual developer intervention and reducing ServiceNow ticket volume. |                                  |
| • Reduced internal dashboard load times from 50s to 3s ( <b>94% improvement</b> ) through backend logic refactoring and SQL tuning.   |                                  |
| • Managed full lifecycle from requirements to launch, using <b>Bicep (IaC)</b> for Azure setup and integrating <b>Adobe Sign API</b> .  |                                  |
| <b>Propel Technology Group</b>   Senior Software Developer   Chennai, India   | <b>July 2020 – December 2021</b> |
| • Built <b>.NET Core/MassTransit microservices</b> for <b>PCTEL</b> to ingest high-frequency XML telemetry via <b>Azure Service Bus</b> , ensuring 99.9% data persistence.              |                                  |
| • Optimized data flow using <b>CQRS and stream-parsing</b> to separate high-write telemetry from analytics, maintaining sub-second dashboard latency.                                   |                                  |
| • Developed <b>GraphQL APIs</b> and an Amazon S3 tool with resumable uploads and 2FA, improving reliability for field engineering teams.  |                                  |
| <b>Orion Innovation</b>   Software Developer   Chennai, India   | <b>July 2017 – May 2020</b>      |
| • Developed a document-routing engine for Deloitte using <b>Angular and .NET</b> to automate international travel compliance for global employees.                                      |                                  |
| • Achieved <b>4x faster load times</b> 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

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

## EDUCATION

<b>MS in Computer Science</b> – Purdue University	<b>January 2022 – May 2023</b>
GPA: 4.0/ 4.0	
<b>BE in Electronics and Communication Engineering</b> – Anna University, India	<b>August 2013 – May 2017</b>
GPA: 8.29/10.0	