

# Omprakash Narayanan Lakshmanan

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## EXPERIENCE

**Medpace** - Cincinnati, US

July 2023 – October 2025

**Software Engineer II**

- **Self-Service Tool:** Built a questionnaire builder for Site Feasibility, removing the need for ServiceNow tickets and manual developer intervention.
- **Dashboard Optimization:** Cut dashboard table loads from 50s to 3s by optimizing Angular change detection, back-end logic and SQL stored procedures.
- **Cloud & Delivery:** Used Bicep (IaC) for Azure setup and managed the full process from requirements to launch, including the Adobe Sign integration.

**Propel Technology Group** - Chennai, India

July 2020 – December 2021

**Senior Software Developer**

- **API Development:** Built .NET Core Microservices and added GraphQL so the front-end could pull exactly the data it needed without extra API calls.
- **Security & S3:** Developed a 2FA system and a file upload tool for Amazon S3 that can resume interrupted uploads.
- **Lead tasks:** Led code reviews, maintained front-end code, and worked on user experience improvements.

**Orion Innovation** - Chennai, India

July 2017 – May 2020

**Senior Software Developer**

- **Web Development:** Maintained a responsive web app using Angular in a CI/CD environment ensuring cross-browser compatibility.
- **Speed & Security:** Achieved 4x faster load times using AOT and lazy loading, and implemented authorization guards to improve user privacy.
- **Mentorship:** Trained 10 junior developers in Angular and web standards.

## PROJECTS

**Shortly** - <https://short-ly-delta.vercel.app/>

Technologies: Next.js, Go, PostgreSQL, Redis

- A URL shortener with a custom dashboard for analytics and QR codes. Implemented IP-based rate limiting using the Token Bucket algorithm for API security.

**Tumbleweed** - <https://app.tumbleweed.digital/>

Technologies: Next.js, NestJS, Supabase, Stripe, AWS

- A marketing SaaS platform for agriculture retailers to schedule social media posts and manage content across multiple locations.

**BrandCraft** - <https://brand-craft.vercel.app/>

Technologies: React, Three.js , R3F

- A 3D tool where users apply logos/images to 3D models to preview branding and export turntable animations.

**Sign Language Detector**

Technologies: Python, TensorFlow, OpenCV

- A machine learning app that uses a camera to recognize hand gestures and translate them into text in real-time.

**Music Genre Classifier**

Technologies: Python, Librosa, React, Flask

- An ML project that analyzes audio files to automatically identify and categorize songs into different musical genres.

## EDUCATION

**Master of Science in Computer Science** - Purdue University

January 2022 – May 2023

**GPA:** 4.0 / 4.0

**Bachelor of Engineering in Electronics and Communication Engineering** - Anna University, India

August 2013 – May 2017

**GPA:** 8.29 / 10.0

## SKILLS

**Languages:** C#, JavaScript/TypeScript, Go, Python, SQL, GraphQL

**Frameworks & Tools:** .NET Core (Entity Framework), Angular, React, Next.js, Gin, Node.js (TypeORM), NgRx, Stripe API

**Cloud & DevOps:** Azure (Bicep/IaC), AWS, Docker, Github Actions

**Databases:** MS SQL Server, Azure Cosmos DB, PostgreSQL, Redis, Supabase

**Concepts:** REST APIs, Microservices, Scalable Architecture, Rate Limiting