

# Omprakash Narayanan Lakshmanan

omprakashnarayanan302@gmail.com - <https://omprakash-l.dev/> - <https://github.com/Omprakash228> - <https://www.linkedin.com/in/omprakash-n/>

## EXPERIENCE

**Medpace** | Software Engineer II | Cincinnati, US

July 2023 – October 2025

- **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** | Senior Software Developer | Chennai, India

July 2020 – December 2021

- **API Development:** Built and maintained .NET Core Microservices using MassTransit and Azure Service Bus to handle asynchronous messaging and event-driven communication.
- **API Performance:** Implemented GraphQL to optimize data fetching and improving front-end performance.
- **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** | Senior Software Developer | Chennai, India

July 2017 – May 2020

- **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** | <https://github.com/Omprakash228/SignLanguageDetection>

Technologies: Python, TensorFlow, OpenCV

- Built a real-time app using computer vision to recognize hand gestures and translate them into text.

**Music Genre Classifier** | [https://github.com/Omprakash228/Music\\_Genre\\_Classification](https://github.com/Omprakash228/Music_Genre_Classification)

Technologies: Python, Librosa, React, Flask

- Built an audio analysis tool to process files and automatically categorize songs into 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

**Backend:** .NET Core (Entity Framework), MassTransit, Node.js (TypeORM), Gin, Microservices (SOA), REST APIs, Rate Limiting, Scalable Architecture

**Frontend:** Angular, React, Next.js, NgRx, Stripe API, Three.js (R3F)

**Cloud & Messaging:** Azure Service Bus, Azure (Bicep/IaC), AWS, Docker, Github Actions

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

**AI Tools:** Prompt Engineering, MCP vs A2A, Cursor, Claude, ChatGPT, Perplexity