

Omprakash Narayanan Lakshmanan

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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	
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