Lakshmi Rama Rao Akula



Senior Full-Stack Engineer

Angular · TypeScript · Node.js · NestJS · Python · C#/.NET · PostgreSQL · MongoDB

alramarao@gmail.com | +49 151 24357909 | Munich, Germany |
linkedin.com/in/ramarao-akula | github.com/alramarao | ramarao.exhrs.com

PROFESSIONAL SUMMARY

Senior Full-Stack Engineer / Developer with 15+ years of experience building web applications and enterprise platforms end to end. Deep frontend expertise in Angular and TypeScript, combined with backend development in Node.js, NestJS, Python and C#/.NET, REST APIs, and PostgreSQL, MongoDB and SQL Server. Recently promoted to Senior Full-Stack Engineer on a multi-tenant SaaS pricing platform, owning features from the Angular UI through Python services to MongoDB. Known for measurable performance work and for learning new technologies quickly when a product needs them.

KEY ACHIEVEMENTS

- **Performance across the stack:** cut Angular page-load time by 70% and average MongoDB query response time by 50% on a platform handling catalogs of 10,000–50,000+ parts per tenant.
- **Full-stack ownership:** learned Python on the job to deliver features end to end without waiting on backend developers, leading to promotion from Senior Frontend to Senior Full-Stack Engineer.
- **Integration at scale:** replaced manually maintained Power BI embeds with a REST API integration that renders around 150 reports live in an Angular application.
- **Stabilization without handover:** took over an AngularJS application with 100+ open defects and no knowledge transfer, and restored it within about a month.

TECHNICAL SKILLS

Frontend	Angular (2–21), TypeScript, JavaScript (ES6+), NgRx, React (personal projects), HTML5, CSS3, SCSS/Sass, SAP UI5, jQuery
Backend	Node.js, NestJS, TypeORM, Python, C#/.NET, ASP.NET Web API, WCF RESTful Services, LINQ
Databases	PostgreSQL, MongoDB (aggregation pipelines, indexing), Microsoft SQL Server (stored procedures, views)
APIs & Security	REST API design and integration, OAuth 2.0, Microsoft Identity Platform, MSAL, SSO, role-based access control
Cloud & DevOps	Azure DevOps, CI/CD pipelines, Azure Blob Storage, Git, TFS
Data & Analytics	Power BI (REST API, embedding), Google Looker Studio
Practices & AI	Performance optimization, code reviews, ESLint, Scrum, Kanban, Jira, Confluence, GitHub Copilot Agents, Claude

PROFESSIONAL EXPERIENCE

Senior Full-Stack Engineer 01/2026 – 08/2026
Senior Frontend Engineer 04/2024 – 12/2025
MARKT-PILOT GmbH, Stuttgart, Germany · SaaS platform for spare-parts pricing and market intelligence
Stack: Angular 21, TypeScript, Python, MongoDB, Git, Jira, Confluence, Scrum

- Learned Python to take ownership of complete features, from the Angular frontend through backend services to MongoDB, reducing cross-team dependencies; promoted to Senior Full-Stack Engineer.
- Developed Python backend services for pricing computation engines and data-ingestion pipelines in a multi-tenant environment.
- Reduced average MongoDB query response time by 50% by projecting only required fields early, pre-computing expensive calculations, and optimizing aggregation pipelines and indexes.
- Reduced Angular page-load time by 70% for large pricing catalogs using AOT compilation, tree shaking and lazy loading.
- Built Angular catalog management for 10,000–50,000+ parts per tenant, a drag-and-drop price-book interface and pricing analytics dashboards.

- Took end-to-end ownership of multiple functional areas, served as a key technical contact, and mentored and onboarded new team members.
- Configured ESLint rules that cut runtime errors by 25%; used GitHub Copilot Agents and Claude for code and unit tests, with full review before production.

Senior Software Developer 10/2020 – 11/2023

NETWALK GmbH, Munich, Germany · MarTech Studio, enterprise marketing technology platform

Stack: Angular 14, TypeScript, NgRx, NestJS, TypeORM, PostgreSQL, Power BI, Looker Studio, Azure DevOps, MSAL

- Joined as a frontend engineer and learned NestJS to work across the stack, building REST APIs with NestJS and TypeORM on PostgreSQL and bridging the separate frontend and backend teams.
- Led a cross-functional team of six developers through a full application refactoring, improving team velocity by 35%.
- Built a dynamic Power BI REST API integration serving around 150 live reports in place of manual iframe embeds; embedded dashboards contributed to a 250% increase in customer conversion.
- Implemented token-based authentication with Microsoft Identity Platform and MSAL (OAuth 2.0), enabling single sign-on and role-based access control.
- Built chunked SharePoint uploads with background progress and PWA web push notifications; integrated Azure Blob Storage and the Azure DevOps REST API.

Senior Software Engineer 05/2015 – 01/2020

Tech Mahindra Limited, Bangalore, India · Citizen self-service and payment portals for the Danish public sector

Stack: Angular 5, AngularJS, TypeScript, C#/.NET, ASP.NET Web API, jQuery, TFS, HP ALM

- Took over an AngularJS application with 100+ open defects after the previous developer left, with no knowledge transfer; learned the framework, resolved the backlog within a month and received formal recognition from management and the client.
- Increased new customer onboarding by 45% by integrating NemID digital identity authentication; implemented DIBS payment gateway and MobilePay integrations.
- Improved SAP data retrieval performance by 40% with high-performance RESTful APIs built on ASP.NET Web API.
- Gathered requirements with business stakeholders and translated them into technical specifications.

Senior Software Engineer 01/2010 – 05/2015

PLLC Software Solutions Pvt Ltd, Hyderabad, India · PGA TOUR fantasy golf and event platforms for US clients

Stack: ASP.NET, C#/.NET, ADO.NET, WCF RESTful Services, MS SQL Server, JavaScript, jQuery

- Built Windows services that ingest live golf tournament feeds and compute fantasy points, achieving 100% scoreboard accuracy.
- Automated tournament email pipelines via the JangoMail API for 10,000+ recipients per event.
- Designed a custom CMS from scratch, eliminating third-party licensing costs; delivered a complete Match Play Bracket Challenge (UI, backend, database) over one weekend to meet a release deadline.

PERSONAL PROJECT

Nexa – Multi-Tenant AI Knowledge & Research Assistant Personal Project · In active development

Stack: React 19, TypeScript, NestJS, Node.js, Prisma, PostgreSQL + pgvector, OpenAI API, Redis/BullMQ, Docker Compose

- Building a full-stack RAG application: React/TypeScript UI, NestJS API, PDF ingestion, chunking, OpenAI embeddings and pgvector search, with LLM answers citing document and web sources.
- Implemented internal, web and combined research modes and tenant-aware data access verified against user membership; moving processing into the scaffolded Redis/BullMQ worker is next.

EDUCATION & LANGUAGES

Master of Computer Applications (MCA), First Class – Bharathidasan University, Tiruchirappalli, India 07/2006 – 04/2009

Bachelor of Commerce (B.Com, Revised – Computers) – Andhra University, India 2003 – 2006

English – full professional proficiency · Authorized to work in Germany