



LAKSHMI RAMA RAO AKULA

SENIOR FULL-STACK ENGINEER

CONTACT DETAILS

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 15+ years of experience building scalable web applications and enterprise platforms. Strong expertise in Angular, TypeScript and JavaScript, complemented by React and extensive backend experience with C#.NET, Node.js, NestJS and Python. Experienced in REST APIs, cloud delivery, CI/CD, performance optimization and Agile product development.

TECHNICAL SKILLS

Front-End Development

Angular 2–21, React.js, SAP UI5, TypeScript, JavaScript (ES6+), jQuery, HTML5, CSS3, SCSS, SASS

Back-End Development

C#.NET, ASP.NET Web API, LINQ, .NET Framework 4.x, WCF RESTful Services, Node.js, NestJS, TypeORM, Python

Databases

SQL Server, PostgreSQL, MongoDB

DevOps & Tools

Azure DevOps, CI/CD Pipelines, Git, TFS, Power BI, Google Looker Studio

AI-Assisted Development

GitHub Copilot (Agents), Claude Opus 4.6 (LLM-based code generation and review)

Methodologies

Agile, SCRUM, Kanban, Jira, Atlassian Confluence

EDUCATION

Master of Computer Applications (M.C.A.)

Bharathidasan University
Tiruchirappalli, India
07/2006 – 04/2009

LANGUAGES

English – Full Professional Proficiency

PROFESSIONAL EXPERIENCE

Senior Full-Stack Engineer

04/2024 – 08/2026

MARKT-PILOT GmbH, Stuttgart, Germany

Technologies: Angular 21, TypeScript, Python, MongoDB, Jira, Confluence, Git, SCRUM

- Promoted to Senior Full-Stack Engineer after delivering Python and MongoDB features for a multi-tenant pricing platform, while continuing Angular 21 front-end work on the same product.
- Leveraged AI-assisted development tools (GitHub Copilot Agents, Claude Opus 4.6) to generate and refine implementation-ready code from user stories, ensuring production quality through rigorous validation and optimization.
- Architected scalable back-end services in Python, powering pricing computation engines and data ingestion pipelines across multi-tenant environments.
- Designed and optimized MongoDB aggregation pipelines and indexing strategies, reducing average query response time by 50%.
- Reduced Angular 19 page load time by 70% using AOT compilation, tree shaking, and lazy loading for large pricing catalogs.
- Developed interactive pricing analytics dashboards enabling analysts to identify underpriced and overpriced parts across global market segments.
- Enforced code quality standards by configuring ESLint rules, decreasing runtime errors by 25%.

Senior Software Developer

10/2020 – 11/2023

NETWALK GmbH, Munich, Germany

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

- Architected token-based authentication using Microsoft Identity Platform and MSAL, enabling single sign-on and role-based access control.
- Drove a 250% increase in customer conversion rates by embedding interactive Power BI dashboards into the Angular application, showing front-end work tied to business outcomes.
- Built real-time analytics dashboards with Google Looker Studio, increasing customer engagement by 15%.
- Led a cross-functional team of 6 developers through a full application refactoring initiative, improving team velocity by 35%.
- Implemented NgRx state management to stabilize complex Angular UI flows and reduce UI bugs across component hierarchies.

Senior Software Engineer

05/2015 – 01/2020

Tech Mahindra Limited, Bangalore, India

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

- Gathered and analyzed business requirements from stakeholders, translating them into detailed technical specifications and system designs.
- Increased new customer onboarding by 45% by integrating NemID digital identity authentication into the self-service portal, demonstrating delivery that improved user completion rates.
- Enabled secure online payment processing by implementing DIBS payment gateway and MobilePay integrations.
- Improved SAP data retrieval performance by 40% through high-performance RESTful APIs built with ASP.NET Web API.

Senior Software Engineer

01/2010 – 05/2015

PLLC Software Solutions Pvt Ltd, Hyderabad, India

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

- Achieved 100% scoreboard accuracy by building Windows services for automated API feed processing of live golf tournament data.
- Streamlined tournament communication delivery for 10,000+ recipients per event by building automated email pipelines via Jango Mail API.
- Eliminated third-party licensing costs by designing and developing a custom Content Management System (CMS) from scratch.
- Increased long-term maintenance efficiency by 80% through standards-compliant, clean, and well-documented codebase practices.