

R V Nitesh Kumar

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● medium.com/@rvnitesh 📍 Chennai

SUMMARY

Results-driven Full Stack Developer with 2.5+ years of experience building scalable web applications using Angular, C#, .NET, Node.js, SQL, and Azure. Skilled in developing responsive UIs, RESTful APIs, database management, and cloud-based solutions in Agile environments.

EDUCATION

B-Tech 2020 – 2024 | chennai
Sathyabama Institute of science and technology
Information technology 8.92 cgpa

EXPERIENCE

Peninsular Research Operation 03/2024 – Present
Software developer engineer chennai : lbr tower Teynampet

Agentic AI Studio

- Architected and developed a multi-tenant AI Agent platform allowing organizations to build, manage, and deploy custom AI assistants powered by Azure OpenAI and external LLM providers.
- Implemented a RAG-based knowledge retrieval system using document chunking, vector embeddings, Pinecone indexing, and semantic search to deliver context-aware responses from enterprise knowledge bases.
- Built configurable agent capabilities including custom instructions, knowledge sources, LLM provider selection, conversation analytics, and tool integrations for diverse business workflows.
- Developed a scalable document processing pipeline supporting automated ingestion, embedding generation, vector storage, and secure knowledge management using Azure Blob Storage.
- Engineered a modern chat experience with file uploads, conversation history, streaming responses, and intelligent document-based question answering.
- Designed RESTful APIs and backend orchestration services using .NET, MongoDB, and Azure technologies to support secure, scalable, and enterprise-ready AI deployments.
- Built AI agents for Financial Analysis, CFO Insights, RFP Evaluation, Sales Forecasting, and Meeting Intelligence.

DataMocha (Governance Progress Management Dashboard)

- Architected and developed a configurable enterprise SaaS platform supporting dynamic dashboards, form builders, workflow management, analytics, reporting, and role-based access control for multiple business domains.
- Led migration of object storage infrastructure from Azure Blob Storage to MinIO using Factory Pattern implementation and S3-compatible architecture, enabling cloud-agnostic deployments and reducing infrastructure dependency on Azure services.
- Engineered complex MongoDB aggregation pipelines, dynamic query generation mechanisms, and optimized database indexing strategies, significantly improving reporting performance for large-scale datasets.
- Built a multi-tenant reseller and client management system with license provisioning, approval workflows, access management, and usage tracking, streamlining onboarding and operational governance.
- Developed advanced analytics and visualization modules including configurable charting, drill-down reporting, forecasting capabilities, and real-time dashboard insights for enterprise users.
- Optimized frontend performance through lazy loading, dynamic imports, dependency rationalization, and bundle optimization techniques, reducing application build size by over 24% and improving initial load performance.

FarmBuddy – Satellite Intelligence Platform (Odisha Government)

- Developed a geospatial analytics platform leveraging Sentinel-2 satellite imagery and vegetation indices (NDVI, NDWI, NDBI, NDMI) to monitor agricultural and environmental conditions across large geographic regions.
- Engineered high-performance geospatial APIs using MongoDB 2dsphere indexing, aggregation pipelines, and polygon-based spatial queries to process and analyze millions of satellite data points.
- Built interactive GeoJSON-based map visualization modules enabling region-wise analysis, spatial filtering, and location intelligence through custom polygon selection workflows.
- Optimized large-scale spatial data processing and retrieval pipelines, significantly improving query performance and enabling real-time satellite analytics for government stakeholders.

Peninsular Research Operation

Software developer intern

- Developed a full-stack e-commerce application using Angular, ASP.NET  Core, MySQL, and MongoDB, supporting product management, user authentication, and online purchasing workflows.
- Designed responsive frontend components and integrated RESTful APIs to deliver a seamless shopping experience across desktop and mobile devices.

- Contributed to database design, backend development, debugging, and deployment activities while gaining hands-on experience with enterprise software development practices.

Focus Research Labs
Web Development Intern

03/2023 – 08/2023 | chennai : semmanjeri

- Contributed to the design and development of web applications using JavaScript, Node.js, and angular, gaining hands-on experience in full-stack development.
- Developed responsive and user-friendly interfaces while supporting backend integration, debugging, and application optimization activities.
- Collaborated with experienced developers in an Agile environment, strengthening skills in software engineering, problem-solving, and project delivery.

SKILLS

Frontend TypeScript, JavaScript, Angular CLI, Html, Css, Bootstrap, Responsive Web Design, RxJS	Backend ASP.NET Core Web API, Entity Framework / EF Core, RESTful APIs, Authentication & Authorization, Dependency Injection, LINQ, MVC Architecture, Nodejs	Tools Docker, Postman, Git, Azure DevOps, N8N, MinIO, OpenMetadata, Redis	Cloud / DevOps Azure Blob Storage, Azure Static Web Apps, Azure App Services, CI/CD basics, Deployment Management, Git, GitHub / Azure DevOps
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CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate  - Issuer: Microsoft - Earned on: 2025-04-20	Microsoft Certified: Fabric Data Engineer Associate  - Issuer: Microsoft - Earned on: 2025-06-21	CDACINDIA :Cloud Computing Technology  Issuer: FutureSkills PRIME (C-DAC & NIELIT, Ministry of Electronics and Information Technology, India)
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HONORS & AWARDS

- Recognition of Excellence Award (9×)** 
Peninsular research operation
Awarded for outstanding contributions across DataMocha, Smart Agri Tech, Data Governance, UI/UX optimization, performance engineering, audit compliance, and enterprise feature delivery.
- Kaizen Katalyst Award** 
Recognized for proposing product improvement initiatives that enhanced user feedback collection and decision-making capabilities in DataMocha.
- Deming Award** 
Recognized for delivering high-quality, customizable UI experiences and enhancing usability across enterprise applications.