NAVEEN KUMAR ACHANTA

Software Engineer | Distributed Systems | Full-Stack Development | Cloud & AI

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PROFESSIONAL SUMMARY

Software Engineer with 4 years of experience designing, developing, integrating, and supporting distributed enterprise applications across backend, frontend, API, database, and cloud environments. Experienced in REST-based services, service-oriented architecture (SOA), multithreaded and asynchronous workflows, and scalable enterprise integrations using C#/.NET, ASP.NET, JavaScript/TypeScript, Angular, React, SQL, and modern web technologies. Hands-on experience with Entity Framework, LINQ, ADO.NET, SQL Server, Oracle, MongoDB (NoSQL), Elasticsearch, Azure, CI/CD, Terraform, Prometheus, automated testing, and production support. Independent projects extend this experience into Node.js, React Native, PostgreSQL, Firebase, and practical LLM-powered search and conversational features.

TECHNICAL SKILLS

Languages: C#, Java, JavaScript, TypeScript, SQL, PL/SQL

Backend & APIs: .NET, ASP.NET, ASP.NET MVC, Entity Framework, LINQ, ADO.NET, Node.js, Express, RESTful APIs, Web API, WCF, Web Services, Dependency Injection, SOA

Distributed Systems: Distributed enterprise applications, REST-based services, API-driven architecture, multi-tier systems, service integrations, asynchronous processing, multithreading, concurrent processing, fault handling, scalability

Frontend & Mobile: Angular, React, React Native, TypeScript, JavaScript, HTML5, CSS3, jQuery, AJAX, Bootstrap, Kendo UI, Expo

Data & Search: SQL Server, Oracle, PostgreSQL, MongoDB (NoSQL), Elasticsearch, T-SQL, PL/SQL, stored procedures

Cloud, DevOps & Observability: Microsoft Azure, Azure DevOps, Terraform, Git, GitHub, TFS, CI/CD pipelines, MSBuild, Vercel, Firebase, Prometheus, logging, API/service health monitoring

AI & Testing: LLM APIs, prompt engineering, contextual prompting, response tuning, NUnit, MSTest, Moq, JUnit, Mockito, unit/integration/API testing, TDD

Practices & Tools: OOP, SOLID principles, design patterns, layered architecture, Agile/Scrum, SDLC, code reviews, Visual Studio, VS Code, IntelliJ IDEA, IIS, Linux

PROFESSIONAL EXPERIENCE

Deloitte, USA

Senior Software Engineer | Dec 2023 - Present

Promoted from Software Engineer to Senior Software Engineer, reflecting expanded technical ownership across architecture, production support, mentoring, and delivery.

- Design and enhance distributed enterprise applications using C#, .NET, ASP.NET, REST-based services, SQL, and service-oriented architecture across application, service, data, and integration layers.
- Participate in technical design and architecture sessions, contributing to service boundaries, data flows, integration approaches, scalability, maintainability, and implementation decisions for enterprise applications.
- Build and integrate RESTful APIs and Web API services connecting frontend applications, backend services, databases, and external enterprise platforms, enabling reliable data exchange across distributed workflows.
- Develop reusable backend services, business logic, validation, exception handling, and data-access components using C#, ASP.NET, Entity Framework, LINQ, and ADO.NET.
- Use LINQ to Entities, LINQ to SQL, LINQ to XML, and LINQ to Collections for querying, transforming, and processing relational, object, and XML-based application data.
- Develop ASP.NET MVC controllers, reusable application components, and layered solutions that separate presentation, business, service, and persistence responsibilities.
- Integrate Angular/TypeScript and JavaScript user interfaces with REST-based .NET services using HTML5, CSS3, jQuery, AJAX, JSON, and reusable UI components.

- Develop and maintain WCF and service-oriented integrations using service contracts and HTTP-based communication to connect internal components with external enterprise systems.
- Implement multithreaded and asynchronous processing for concurrent, background, and long-running server-side workflows, helping keep user-facing operations responsive.
- Design and optimize SQL Server and Oracle data-access workflows using T-SQL, PL/SQL, stored procedures, functions, joins, and query tuning for transactional and reporting requirements.
- Build reusable .NET libraries, manage shared dependencies through NuGet, and use MSBuild to automate compilation, testing, packaging, and deployment preparation.
- Build and support CI/CD workflows with Azure DevOps/TFS, Git, automated testing, code-review gates, and controlled deployments, making releases more consistent across development, QA, and production.
- Define repeatable Azure infrastructure configurations with Terraform to standardize environment provisioning and reduce manual configuration differences between environments.
- Integrate Prometheus-based monitoring for REST services and backend components, improving visibility into service health, latency, failures, availability, and operational behavior.
- Develop NUnit and Moq unit and integration tests covering business logic, API integrations, exception paths, and data-access components as part of continuous delivery workflows.
- Mentor junior engineers through design discussions, code reviews, debugging support, implementation guidance, and knowledge sharing on application architecture and development practices.
- Take active ownership of production support by analyzing logs and service behavior, triaging incidents, coordinating fixes, validating releases, and resolving high-priority application issues.
- Contribute across the complete SDLC for Azure-hosted distributed applications, from requirements analysis and technical design through implementation, deployment, troubleshooting, defect resolution, and post-release support.

Prudential, USA

Software Engineer | Nov 2020 - Dec 2021

- Developed and enhanced distributed enterprise applications using C#, .NET, ASP.NET, JavaScript, SQL, REST-based services, and service-oriented architecture across presentation, service, data, and integration layers.
- Designed and integrated RESTful APIs and Web API services connecting web applications with backend business services, databases, and enterprise platforms.
- Built reusable business logic, validation, exception handling, and persistence components using ASP.NET MVC, Entity Framework, LINQ, and ADO.NET.
- Developed responsive web interfaces using HTML5, CSS3, JavaScript, jQuery, AJAX, JSON, and Bootstrap, integrated with REST-based backend services.
- Used LINQ to Entities and LINQ to Collections for filtering, transformation, persistence, and retrieval of application data through Entity Framework.
- Developed SQL Server and Oracle queries, stored procedures, joins, functions, and database operations supporting transactional and reporting workflows.
- Used MongoDB (NoSQL) for flexible and semi-structured application data where document-oriented storage better matched the data model than relational persistence.
- Integrated Elasticsearch indexing and retrieval to support faster search and discovery across structured and semi-structured business records.
- Applied service-oriented architecture principles and REST/HTTP interfaces to create loosely coupled components and reduce dependencies between application modules.
- Implemented asynchronous processing patterns for background and integration workloads so long-running operations did not block user-facing application flows.
- Supported repeatable software delivery using Git/TFS, automated builds, unit testing, code reviews, CI/CD workflows, and controlled deployments across development, QA, and production.

- Contributed throughout the SDLC, including requirements analysis, application design, development, testing, deployment, production troubleshooting, defect resolution, and Agile/Scrum delivery.

INDEPENDENT PROJECTS

SWOT & Study - AI-Enabled Full-Stack Web Application

React | Node.js | MongoDB | REST APIs | AI/LLM APIs | Vercel

- Independently designed and delivered **SWOT & Study (swotandstudy.com)** from concept through public deployment, covering frontend, backend, persistence, testing, and cloud configuration.
- Built a responsive **React frontend** integrated with Node.js REST services and reusable UI/service components.
- Designed backend data models with **Node.js, MongoDB, and Mongoose** for API-driven user and application data workflows.
- Integrated an **LLM-powered conversational assistant** using prompt engineering, contextual prompting, model configuration, and response tuning.
- Managed Git-based development, debugging, environment configuration, testing, and deployment through **Vercel**.

GoLivescore (GLS) - AI-Enhanced Live Sports Mobile Application

React Native | TypeScript | Node.js | Express | REST APIs | PostgreSQL | Firebase | LLM APIs | JWT

- Designed **GoLivescore (GLS)** as a cross-platform mobile app for live scores, game updates, team information, and personalized sports content through real-time API integrations.
- Built the mobile experience with **React Native and TypeScript**, connecting scores, schedules, game details, followed teams, and user preferences through REST services.
- Engineered backend APIs with **Node.js and Express**, using PostgreSQL for profiles, preferences, followed teams, notifications, and application data.
- Added **LLM-powered smart search and conversational sports discovery** for natural-language exploration of teams, players, games, and sports information.
- Applied **prompt engineering, contextual prompting, and response tuning** to improve AI-assisted search and personalized content discovery.
- Delivered personalized alerts through **Firebase Cloud Messaging** for game starts, score changes, important events, and followed teams.
- Applied security controls including **JWT authentication/authorization, protected endpoints, request validation, HTTPS, secret management, and secure API credential handling**.
- Used asynchronous and event-driven processing for live updates, notification delivery, external API communication, and background tasks.

EDUCATION

Master of Science in Computer Science | Campbellsville University, Kentucky, USA | 2022 - 2023