

HUSSAIN BALAJ

SENIOR FULL-STACK ENGINEER

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 7+ years of experience building scalable enterprise applications using Angular, .NET/C#, Java, MEAN, and MERN. Strong expertise in React, Node.js, Spring Boot, REST APIs, SQL/NoSQL databases, and cloud technologies, with a proven track record of delivering secure, high-performance, and production-ready solutions.

TECHNICAL SKILLS

Backend: Python (Expert), .Net, .Net Core, C# JavaScript/TypeScript (ES6+), Node.js, FastAPI, Flask, Django, Express.js, NestJS, MongoDB (Expert), PostgreSQL, Redis, GraphQL (Apollo), gRPC

AI / LLM Integration: LangChain, LangGraph, LlamaIndex, Haystack, OpenAI API, Anthropic Claude API, RAG, Multi-Agent Systems, Prompt Engineering, Fine-Tuning, Vector Databases (Pinecone, Weaviate, Chroma, FAISS, Qdrant, pgvector)

Frontend: React.js (Expert), Next.js (App Router), Angular, TypeScript, Redux Toolkit, Zustand, React Query, Tailwind CSS, Material-UI

Cloud & DevOps: AWS (EC2, Lambda, S3, RDS, DynamoDB, Bedrock, SageMaker), Docker, Kubernetes, Terraform, CloudFormation, GitHub Actions, CI/CD

PROFESSIONAL EXPERIENCE

Senior Full-Stack Developer

Jan 2021 – Present

ThoughtWorks, Inc - NY

- Architected and developed scalable enterprise web applications using Angular, React, .NET Core, Java, Node.js, and Spring Boot.
- Built and maintained full-stack applications using MEAN and MERN stacks, delivering responsive UIs, RESTful APIs, and scalable backend services.
- Designed and developed RESTful APIs and microservices using .NET Core, Java/Spring Boot, Node.js, and Express.js.
- Developed modern front-end applications using Angular and React, implementing reusable components, state management, API integration, and responsive designs.
- Designed and optimized SQL and NoSQL database solutions using SQL Server, PostgreSQL, MySQL, and MongoDB to support high-volume applications.
- Built the backend and infrastructure layer supporting AI features across 15+ enterprise applications (Node.js, Python/FastAPI, MongoDB, Redis) handling 10M+ requests/day at 99.9% uptime.
- Implemented secure authentication and authorization using JWT, OAuth, role-based access control, and enterprise security practices.
- Improved application performance through API optimization, database tuning, caching, asynchronous processing, and efficient front-end development.
- Built and maintained cloud-ready applications using AWS and Azure, with experience in Docker, CI/CD, deployment automation, and application monitoring.
- Integrated third-party APIs and enterprise services, ensuring reliable data exchange and seamless communication between distributed systems.
- Collaborated with cross-functional teams and participated in Agile/Scrum development, code reviews, technical design, troubleshooting, and production support.
- Mentored developers and contributed to technical architecture, coding standards, best practices, and engineering decisions across full-stack projects.

Senior Full-Stack Developer

Oct 2018 – Dec 2020

Appsvolt Inc - NY

- Developed and maintained enterprise web applications using Angular, .NET Core, C#, Java, and JavaScript/TypeScript.
- Built responsive and reusable Angular components, services, forms, and modules following modern front-end development practices.
- Developed backend services and RESTful APIs using ASP.NET Core and Java/Spring Boot for enterprise applications.
- Worked extensively with MEAN and MERN stack technologies to develop end-to-end web applications.
- Implemented CRUD operations, business logic, validation, authentication, and authorization across multiple applications.
- Integrated Angular and React applications with backend APIs and third-party services to support seamless data communication.
- Designed and optimized database queries, stored procedures, and data models using SQL Server, MySQL, PostgreSQL, and MongoDB.
- Implemented JWT and role-based authentication to secure application resources and APIs.
- Improved application performance through code optimization, database tuning, API improvements, and efficient front-end rendering.
- Developed reusable UI components and shared services to improve code maintainability and development efficiency.
- Participated in code reviews, debugging, unit testing, integration testing, and production issue resolution.
- Used Git/GitHub for source control, branching strategies, pull requests, and collaborative development.
- Worked in Agile/Scrum teams, participating in sprint planning, daily stand-ups, backlog refinement, and retrospectives.
- Mentored junior developers on Angular, .NET, Java, JavaScript/TypeScript, coding standards, and development best practices.
- Collaborated with developers, QA, and business teams to deliver features on schedule.

NOTABLE IMPACT HIGHLIGHTS

- Enterprise Web Application: Developed scalable applications using Angular, .NET Core, SQL Server, and AI integrations, delivering responsive and intelligent enterprise solutions.
- Full-Stack Development: Built end-to-end features using MEAN/MERN stack technologies, including Angular, React, Node.js, Express.js, and MongoDB.
- API & AI Integration: Designed RESTful APIs and AI-enabled services using .NET Core, Java/Spring Boot, and Node.js, integrating intelligent capabilities into business applications.

EDUCATION

Bachelor of Science, Computer Science

Comsats University

Mar 2015 – Aug 2018

TECHNICAL INTERESTS

AI & LLM Integration, Full-Stack Development, Angular & React Applications, .NET & Java Backend Systems, MEAN/MERN Architecture, RESTful APIs & Microservices, Cloud-Native Applications, Distributed Systems, Performance Optimization.