

# NITISH KUMAR

Software Engineer | Backend Systems Developer | Cloud Infrastructure Specialist  
Dublin, Ireland | Stamp 1G Visa (Graduate Visa) | nk61910@gmail.com | +353 892131527  
linkedin.com/in/nitish-kumar-739062189 | github.com/nitishkumar2701 | nitishkumar.onrender.com

## PROFESSIONAL SUMMARY

---

Software Engineer with 3+ years of experience building scalable backend systems and cloud infrastructure solutions using compiled language (C#) and modern web technologies. Proven expertise in developing fault-tolerant, high-performance systems with microservices architecture on Azure cloud platform. Strong background in monitoring, auto-healing mechanisms, and database optimization, improving system performance by 40% and reducing downtime through automated workflows. Experienced in full-stack development with React.js, collaborating across product, design, and engineering teams in Agile environments.

## CORE COMPETENCIES

---

- **Backend Systems:** C#, Java, .NET Core 6.0/7.0/8.0, ASP.NET Web API, microservices architecture, RESTful APIs
- **Cloud Technologies:** Microsoft Azure (VMs, Azure SQL, Azure DevOps), AWS fundamentals, cloud infrastructure management
- **Frontend Stack:** React.js, JavaScript ES6+, responsive web design, modern testing frameworks
- **Database Systems:** SQL Server, MongoDB, Neo4J, database optimization, stored procedures, performance tuning, data durability
- **DevOps & Infrastructure:** CI/CD pipelines, Docker, Kubernetes, automated deployment, system monitoring, auto-healing
- **Testing Methodologies:** Unit testing (NUnit, xUnit), integration testing, end-to-end testing, TDD, API testing
- **Development Practices:** Agile/Scrum, distributed systems design, cross-functional collaboration, technical leadership
- **Tools:** Visual Studio, Git, Postman, Azure Data Factory, SQL Server Management Studio, Azure Monitor

## PROFESSIONAL EXPERIENCE

---

### Associate Software Engineer | Backend Systems Developer

Feb 2023 - Nov 2024

*OEC India, Chennai, India*

- Architected and developed scalable backend microservices using .NET Core and C#, improving system performance by 40% and supporting 1000+ concurrent users across distributed infrastructure
- Built fault-tolerant RESTful APIs with automated monitoring and healing mechanisms, reducing system downtime by 30% through proactive health checks and self-recovery protocols
- Designed and implemented cloud infrastructure solutions on Microsoft Azure, managing virtual machines, databases, and automated scaling policies for high-availability systems
- Developed full-stack features using React.js and TypeScript for customer-facing UIs, collaborating with product and design teams to deliver intuitive configuration interfaces
- Led technical projects from design through production deployment, working with cross-functional stakeholders to build consensus and share operational insights across 5+ teams
- Implemented comprehensive testing strategies including unit, integration, and end-to-end tests, achieving 90%+ code coverage and ensuring production reliability
- Optimized database performance through query tuning and indexing in SQL Server, reducing data processing time by 60% and improving data durability guarantees
- Built CI/CD pipelines with Azure DevOps for automated testing and deployment, reducing deployment time by 20% and enabling rapid iteration cycles
- Conducted thorough investigations of production issues across multiple abstraction levels, from cloud provider infrastructure to application-level behavior
- Performed code reviews and mentored junior developers on best practices, SOLID principles, and distributed systems design patterns

### Associate Business Intelligence Engineer

Sep 2022 - Feb 2023

*OEC India, Chennai, India*

- Developed automated monitoring and alerting systems using .NET applications and Azure services, reducing manual monitoring efforts by 70% and improving system observability
- Built ETL pipelines using Azure Data Factory for data integration across distributed systems, ensuring data durability and consistency across cloud infrastructure
- Created data visualization dashboards for system health monitoring using Power BI and custom .NET solutions, enabling proactive issue detection
- Optimized database performance and implemented auditing systems for data integrity verification across SQL Server clusters
- Collaborated with support teams to investigate and resolve data-related issues, improving mean time to resolution by 35%

### Developer Intern

Mar 2022 - Aug 2022

*OEC India, Chennai, India*

- Contributed to backend and frontend development of .NET Core web applications within Agile Scrum framework
- Developed UI components using React.js, HTML5, CSS3, and JavaScript for customer-facing application interfaces
- Participated in daily stand-ups, sprint planning, and technical design reviews, achieving 100% sprint completion rate across 15+ sprints
- Implemented continuous integration practices using Azure DevOps, ensuring code quality through automated testing
- Collaborated with senior engineers on system design discussions and learned distributed systems principles

### API Developer Intern

Aug 2021 - Dec 2021

*Stigmata Techno Solutions, Chennai, India*

- Developed and maintained RESTful Web APIs using .NET Framework and C#, serving backend infrastructure for web applications
- Implemented comprehensive API testing using Postman, achieving 95% test coverage across 50+ endpoints with automated test suites
- Optimized API performance through caching strategies and database query optimization, reducing response time by 40%
- Built frontend components using JavaScript and modern web technologies, gaining full-stack development experience
- Integrated third-party APIs and web services, understanding inter-service communication patterns in distributed systems

## EDUCATION

---

### Master of Science in Data Analytics

Jan 2025 - Dec 2025

*Dublin Business School, Dublin, Ireland*

Grade: 2:1 | Focus: Distributed Systems, Big Data Technologies, Advanced Analytics, Machine Learning

### Bachelor of Engineering in Computer Science

2018 - 2022

*St Joseph's Institute of Technology, Chennai, India*

(CGPA: 8.09/10) | Relevant Coursework: Distributed Systems, Database Management, Software Engineering, Cloud Computing

## TECHNICAL PROJECTS

---

### Distributed Monitoring System | C#, .NET Core, Azure, SQL Server

Built automated health monitoring and auto-healing system for distributed microservices with real-time alerting, reducing incident response time by 45% through predictive failure detection and automated recovery mechanisms

### High-Performance API Gateway | .NET Core, Docker, Kubernetes

Designed scalable API gateway handling 10,000+ requests/minute with load balancing, rate limiting, and circuit breaker patterns for fault tolerance across multiple backend services

## **CERTIFICATIONS & ACHIEVEMENTS**

---

- Microsoft Azure Data Fundamentals (DP-900) - Cloud Infrastructure & Services
- HackerRank SQL Certification - Database Query Optimization
- IBM Enterprise Design Thinking Practitioner - Cross-functional Collaboration
- Google Generative AI Prompting Essentials