

Rushabh K Gandhi

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Summary

Results-driven Full-Stack Developer & IoT Engineer with 6+ years of experience in designing and developing scalable web applications, cloud-based solutions, and IoT-integrated systems. Strong expertise in .NET Core, Angular, React, Azure, and DevOps for building high-performance, secure applications.

Skilled in architecting microservices, optimizing cloud infrastructures, and implementing CI/CD pipelines to enhance system reliability and efficiency. Additionally, experienced in IoT and Industry 4.0 solutions, integrating RFID, sensors, SCADA, PLCs, and Edge computing for real-time data processing and automation. Passionate about leveraging cloud, AI, and IoT to drive innovation in industries like Capital Markets, Social Media Apps, Agriculture, Manufacturing, and Healthcare.

Skills

- **Languages :** C# | SQL | JavaScript | TypeScript | Python | Java
- **Technologies :** .NET 6/8 | .NET Core | Web APIs | Angular | React | Node.js | Entity Framework | SignalR
- **Databases:** SQL Server | NoSQL (MongoDB | CosmosDB) | Azure Synapse | SSIS
- **Cloud & DevOps:** Azure (Azure Functions | API Gateway | Key Vault | Blob Storage) | AWS (Lambda | S3)
- **Security & Infrastructure:** Security | Firewalls | Network Segmentation | Terraform | Docker | Kubernetes
- **Certifications :** Python or Everybody (Coursera) | AZ-900 | AZ-204 | and AI-900 | Professional Industrial Automation Training (N.C.V.T) | PG in Advance IoT (Cranes Varsity – Bangalore)
- English, Gujarati, and Hindi : *All professional proficiency or above*

Experience

Programmer Analyst

SunsetGrown - Mastronardi

Kingsville, Canada Nov, 2023 – Present

- **User Management:** Implemented Azure Active Directory and ADB2C for better user management and access control.
- **Code Management:** Enhanced code sharing and internal access using NuGet and Azure Artifacts.
- **Architecture Design:** Designed low-level architecture for APIs and backend using Clean Architecture.
- **DevOps:** Created .yaml scripts for building pipelines and deployment in Azure DevOps.
- **Infrastructure:** Implemented Azure based architecture which includes: Azure Gateway with WAF, API Management, VNet, Subnets, NSG, DNS rules, Function Apps, Web Apps, WebAPIs, Database and DevBox with Terraform scripts.
- **Code Review:** Conducted code reviews and implemented SonarQube for code quality.
- **Performance Improvement:** Developed a high-performance cloud solution with Azure App Services, Functions, and Logic Apps, increasing performance by 25% and reducing costs by 20%.
- **Database Management:** Managed Azure SQL Database, optimizing performance and maintaining backups.
- **Frontend Development:** Developed frontend with Bootstrap, Angular 16, and PrimeNG, incorporating eslint, Angular CLI, reactive forms, lazy loading, ES6, and preventing memory leaks. Almost developed 20+ complex pages independently with minute details.
- **Integrated Services:** Integrated weather services, PostMark email services, language translation, and AI cognitive services.
- **Technologies:** Utilized C#, .NET 9, Angular 16, Azure Functions, SQL, Azure DevOps, TypeScript, HTML, CSS, Bootstrap, and Azure to develop robust, scalable, and efficient cloud solutions

Software Engineer

SPARKT

Remote

May, 2022 – Nov, 2023

Phillips Corporation : Developed the microservices-based ecosystem, serving various business needs including machinery monitoring, skill development, social media, ed-Tech, and e-commerce. It empowers Phillips to efficiently manage operations, offering a versatile solution for customers and stakeholders. Phillips X Platform - Business Technology and Software, Phillips Education – Ed-Tech, Phillips Machinist – Machining, Manufacturing. Overall, it has **30K+ active Users** which uses these services.

- Led the design and development of multiple enterprise-level microservice applications and actively involved in building the most **complex** part of the system with **Agile** Methodology.
- Built the **IdentityServer4** for **Authentication, Authorization** and **Single Sign On** for the Web-Application, Microservices, and Mobile Application.
- Built **Azure Services** -> (CI/CD pipelines with Azure Repo, Service Bus, Event Bus, Database, Application Insights, Functions, Blob and CDN, Key Vault, and App Service), and write test cases with **xUnit**, which reduced manual effort by **≈80%**.
- Implemented the **gRPC**, and **HTTP abstraction** which increased the API response between two microservices by **≈50%**.
- Optimized **C#** code by **LINQ, ADO .NET, MS-SQL** queries, boosted queries up to **≈45%**.
- Managed Pull requests, code reviews, load/stress testing, unit/integration/e2e testing, fixed memory leakage issues
- **Integrate** 3rd party APIs like Iron Suite for .NET, Learning Locker LRS, Ziptastic, PIFY, Twilio, Sendgrid, Zero Bounce, Calendarific, Google Firebase, Google Analytics, Google Big Query, Get Stream, Azure Content Moderator.
- **Technologies:** C#, .NET 6, Angular 14, SQL, Azure DevOps, TypeScript, PrimeNg, HTML, CSS, Bootstrap, Social logins (Facebook, Google, Twitter, LinkedIn), Payment gateway, IoT.

Software Engineer

Accenture

Mumbai, IN

Feb, 2020 - Apr, 2022

Capital Group: - Developed TOPS, it is a back-office system for retail accounts (mutual funds) to validate, process, execute and acknowledge trades created by account managers with their corresponding confirmations from brokers.

- **Microservices Architecture** setup and migration to **.NET Core 3.1 APIs, Spring Boot** and **Angular 12** from ASP .NET (legacy system).
- Worked in an **Agile** environment, leveraging **JIRA** for project management and **Confluence** for technical documentation. Additionally, utilized **Visio** to create UML and other essential diagrams.
- Implemented **Entity Framework 5.0**'s with Code-First approach within the Onion Architecture Pattern.
- Developed the angular components and Web-APIs and improving the performance by using **multi-threading**, various **algorithms**, **OOPS**, and **async/await** concepts.
- Designed and developed the **Okta OAuth 2.0** (POC) and **Jenkins** Pipeline for the Web-Application, and Microservices.
- Built an **Event Bus** abstraction to handle Asynchronous message-based communications, based on **RabbitMQ**.
- Created **SSIS** packages to transfer the data from the legacy TPS (trade processing system) application SAP ASE(Sybase) database to the new TOPS application **SQL Server** database. Implemented **AWS S3** file retrieval, processing, uploading, and configured set of rules.
- Created **Autosys jobs** to execute endpoints and wrote **Python** automation scripts to reduce developer time **≈90%**.
- Recognized by the team and the client for quality work and **quick delivery** with **minimal defects** during development and maintenance.
- **Technologies:** C#, .NET Core 3, Angular 12, SQL, AWS, Autosys, Entity Framework, Jenkins, TypeScript, HTML, CSS, Bootstrap, SWIFT, RabbitMQ, SSIS, SSRS.

More projects

- **Smart Medicine Vending Machine** (Startup)
 - Built a **smart medicine dispenser** using **Raspberry Pi, Arduino, IR Sensors, QR Scanner, and Azure IoT Hub**.
 - Developed a **cloud-based dashboard** for **real-time inventory monitoring**.
 - Integrated **payment gateways & RFID authentication**.
- **Industrial IoT Monitoring System** (Industry 4.0)
 - Led the architecture for Edge computing, integrating PLC (Siemens, Allen Bradley), DCS, and cloud-based analytics.
 - Designed **SCADA-integrated industrial automation system** for **machine status tracking & predictive maintenance**.
 - Implemented **LoRaWAN-based wireless sensor network** for remote data logging.
- **Smart Greenhouse Automation**
 - Developed **AI-driven temperature & humidity control** using **ESP32, DHT11 sensors, and MQTT protocol**.
 - Integrated **Azure Cognitive Services** for **anomaly detection in crop growth**.

Responsibilities

- **Software Development Cycle:** Agile Methodologies | Requirement gathering & analysis | Database design | Coding | Data Processing | UI designing | Unit testing | Code review | Deployment | Technical documentation | IoT (Internet Of Things)
- **Mentoring:** Helping teammates technically | KT Sessions | Discipline | Passion.

Education

Master of Engineering

University of Windsor

Windsor, ON, CA

Sept, 2022 – Dec, 2023

- Major in Computer Engineering - **84%**

Bachelors of Engineering

Gujarat Technical University

Ahmedabad, Gujarat, IN

Aug, 2015 – Jun, 2019

- Instrumentation and Control - **87%**

Publications

- "Multifunctional HUD with Drowsy Detection and Fog Elimination Mechanism", Published in Elsevier-SSRN Digital Library, Featured in Google Scholar)
- "Multifunctional Load Cell and RFID with Stock Management" - Springer- Advances in Automation, Signal Processing, Instrumentation, and Control
- "E-Verification of Driver for Road & Automobile Safety", Published in Journal of Emerging Technologies and Innovative Research