Shubham Sarpal

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Portfolio: https://shubhamsarpal.com/

Professional Summary

Full Stack Developer with 7+ years of experience **designing and engineering scalable, cloud-native enterprise applications** across Microsoft and open-source ecosystems. Skilled in **C#, ASP.NET Core, Blazor, Python (FastAPI), and React**, with hands-on expertise integrating **AI and LLM models** (ChatGPT, Hugging Face) into production-grade solutions. Proficient in building **RESTful APIs**, modernizing legacy platforms, and streamlining delivery through **Azure CI/CD pipelines**, **Kanban**, and **Sprint-based workflows**. Experienced in **platform architecture, microservices design**, and data-driven analytics with **Power BI**.

Technical Skills

Languages & Frameworks: C#, ASP.NET Core, ASP.NET MVC, Blazor, Razor Pages, .NET 6.0, Python (FastAPI), React, JavaScript, HTML5, CSS3, jQuery

AI & Machine Learning: Large Language Models (LLMs), Hugging Face Transformers, ChatGPT API, OpenAI Integration, Prompt Engineering

Backend & APIs: RESTful API Development, Entity Framework, LINQ, Web API, Microservices Architecture

Databases: SQL Server, PostgreSQL, Snowflake, Oracle (TOAD)

Cloud & DevOps: Azure DevOps, CI/CD Pipelines, IIS, Octopus Deploy

Testing: Unit Testing, Integration Testing, NUnit, Moq

Reporting & Analytics: Power BI, SSRS, Crystal Reports

Tools: Visual Studio 2022/2019, VS Code

Source Control: GitHub, GitKraken, TortoiseSVN

Professional Experience

Senior Software Engineer
Pathward Financial Services – Remote   *Aug 2022 – Present*

- Engineered modern Blazor 6.0 web applications using Razor Pages to deliver intuitive, responsive UX - improving customer-facing performance and efficiency.

- Developed and optimized RESTful APIs with ASP.NET Core 6.0, partnering with solution architects to implement Clean Architecture and Repository Pattern for scalable, maintainable codebases.

- Built reusable React components to enhance UI consistency and integrated Python-based services using FastAPI and AI/LLM solutions (via Hugging Face) to centralize employee resources and accelerate data search efficiency by 25%.

- Leveraged Snowflake to design and maintain analytical data pipelines, improving reporting accuracy and insight generation.

- Implemented automated testing using NUnit and Moq, executing smoke and performance tests in Azure Boards to ensure site stability and optimize component load times.

- Collaborated cross-functionally in Agile sprints, leading code reviews, mentoring peers, and maintaining full ownership of end-to-end project delivery.

- Managed deployments through Azure DevOps CI/CD pipelines and Octopus Deploy, ensuring smooth release cycles in close coordination with DevOps teams.

Software Developer 2

Lower Colorado River Authority – Austin, TX   *Aug 2021 – Aug 2022*

- Developed enterprise-grade web applications using ASP.NET MVC 5 and Razor Pages, improving application scalability and reducing page load times for end users.

- Implemented responsive UI components with JavaScript, Bootstrap, jQuery, and custom CSS, delivering a cleaner user experience that increased user engagement and reduced front-end maintenance overhead.

- Created interactive dashboards in Power BI for executive and operational reporting, enabling data-driven decision-making and cutting manual report preparation time by 30%.

- Optimized Oracle database queries using TOAD and indexing strategies, enhancing query performance and reducing data retrieval time by up to 40%.

- Supported disaster recovery and business continuity initiatives, ensuring 99.9% uptime and minimizing business disruption during infrastructure migrations.

Software Developer

St. Joseph Indian School – Sioux Falls, SD   *May 2019 – Jul 2021*

- Developed and deployed full-stack features using ASP.NET MVC, C#, and SQL Server, improving feature delivery speed and application reliability.

- Automated ETL workflows with SSIS, reducing manual data handling by 50% and improving data accuracy across reporting systems.

- Built operational and compliance reports using SSRS and Crystal Reports, enabling real-time visibility and supporting audit readiness for key stakeholders.

- Migrated legacy data from MS Access to SQL Server 2016 with optimized T-SQL scripts, improving database performance and long-term maintainability.

- Actively participated in Agile Scrum ceremonies including sprint planning and retrospectives, enhancing team velocity and alignment across releases.

IT Technical Analyst

USAA – San Antonio, TX   *Feb 2018 – Apr 2019*

- Designed and implemented responsive web interfaces using HTML, CSS, and Bootstrap, enhancing mobile compatibility and improving user satisfaction scores.

- Managed and optimized PostgreSQL databases, refining schema design and tuning queries to reduce data retrieval time by 30% and increase system stability.

- Administered IIS servers for application deployment, monitoring, and troubleshooting, ensuring consistent uptime and faster release turnaround.

- Partnered with QA teams to build and execute automated unit and integration tests, improving defect detection rates and shortening release cycles.

- Contributed in Kanban-driven workflows and sprint reviews, helping accelerate delivery timelines and maintain continuous feature deployment.

Education

University of Texas at San Antonio

M.Sc. in Electrical Engineering   *Jan 2016 – Dec 2017*

H.R. Institute of Technology, India

B.Tech. in Electronics   Aug *2011 – Aug 2015*

Certifications

Microsoft Certified: Azure Fundamentals (AZ-900)
Published Paper: "Review of Interactive Communication Systems for B2B Services"