NIKESH BIRAGGARI

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PROFESSIONAL SUMMARY

Detail-oriented Software Engineer with hands-on experience in building scalable, distributed, and secure enterprise applications across clinical trial systems and identity access management. Adept at designing resilient microservices, automating engineering workflows, and integrating cloud-native technologies to streamline development and delivery.

EDUCATION

Northeastern University, Boston, MA   **September 2023 - May 2025**
MS in Information Systems   **GPA**: 3.84

PROFESSIONAL EXPERIENCE

Micron Technology   **Hyderabad, India**
Software Engineer   **February 2022 - August 2023**

- Architected enterprise-wide **Azure AD (Entra ID) MFA migration**, saving $800K/yr meeting Zero Trust and NIST 800-171 compliance standards through secure policy enforcement using **Conditional Access**.
- Developed and maintained **C# .NET**-based IAM modules powering over 30,000 enterprise identities, integrating capabilities including endpoint connectors, role-based access controls, and identity provisioning logic.
- Built reusable front-end components using **Blazor**, **React JS** and enforced granular user permissions by implementing role-based token validation through custom middleware, improving access control efficiency across 5+ internal IAM applications.
- Orchestrated deployment of containerized IAM services on **Kubernetes (AKS)**, managing 15+ microservices and accelerating release cycles by 60% through optimized **CI/CD** pipelines in Azure DevOps.
- Optimized backend performance of a **distributed password retrieval system** for generic and service accounts by implementing asynchronous job handling and Redis-based caching, reducing API response time by 70% and ensuring uninterrupted access during password rotations.
- Collaborated with operations teams to diagnose critical IAM access failures in enterprise applications, conducted detailed postmortem analysis, and implemented Corrective and Preventive Actions (CAPA) to eliminate root causes and enhance system resilience.

Cognizant Technology Solutions   **Hyderabad, India**
Software Engineer   **October 2020 - February 2022**

- Designed and implemented full-stack clinical trial management features using **ASP.NET, Entity Framework, React JS, and SQL Server**, ensuring FDA 21 CFR Part 11 compliance.
- Engineered high-performance **REST APIs** for patient enrollment, document tracking, and medical history ingestion using **C# .NET Core**, leveraged Azure Blob Storage for efficient document management and integrated with a custom-built solution for enrollment and tracking, boosting system performance by 80%.
- Spearheaded the creation and management of a test suite for a **microservices** architecture using C# and **xUnit/NUnit**, achieving 95% code coverage and reducing production-level defects by 40% through a combination of unit, integration, and end-to-end testing.

TECHNICAL SKILLS & CONCEPTS

- **Languages & Frameworks**   : C#, .NET Core, ASP.NET, Blazor, React JS, Angular JS, JavaScript, SQL, T-SQL
- **Cloud & DevOps**   : Azure, AWS, GCP, Packer, Terraform, GitHub Actions, CI/CD, Azure DevOps
- **Databases**   : MSSQL Server, CosmosDB, MongoDB
- **Testing & Methodologies**   : MSTest, NUnit, xUnit, TUnit, Agile, Waterfall
- **APIs & Protocols**   : PowerShell, Shell, Bash, Design Patterns, APIs, REST APIs
- **Tools & Others**   : Jira, Confluence, Visio, Power BI, Tableau, Visual Studio

ACADEMIC PROJECTS

Network Structures and Cloud Computing   **[GitHub]**

- Hosted a fault-tolerant application on Google Cloud with **CI/CD** pipelines via **GitHub Actions**, leveraging Cloud Load Balancer and Auto-Scaling for 99.99% uptime.
- Streamlined infrastructure management with **Terraform**, cutting manual provisioning time by **90%**.