Himani M.

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Professional Summary

Dedicated software engineer with a Master's Degree in Computer Science and around 5 years of professional experience. Proficient in JavaScript, C#, SQL, .NET, Angular, Python, and more. Expertise in software architecture, collaborative problem-solving, and innovative solution implementation in agile environment.

Education

Master of Science in Computer Science GPA 3.7/4.0
University at Buffalo, The State University of New York *August 2022 – December 2023*

Bachelor of Technology in Information Technology
Maharshi Dayanand University *August 2014 – May 2018*

Work Experience

Software Engineer Intern *June 2023 – August 2023*
CBRE, Richardson, Texas, USA

- Integrated Google Maps into **Angular**, facilitating user decision-making for real estate locations. Implemented robust scoring methods based on demographic factors on backend utilizing **Python and Flask**.
- Visualized real estate budget forecasting data on **Power BI** dashboard with integration on Angular.

Senior Engineer *September 2021 – August 2022*
Nagarro, India

- Engineered **Azure Topics** for efficient fund allocation services, improving overall microservices interaction.
- Led migration effort, upgrading front-end from Angular 4 to Angular 8 and back-end from .NET Core 2.2 to .NET 5. The initiative resulted in a notable performance boost and enhanced maintainability.
- Implemented logging in **.NET 5** microservices architecture and integrated it with **Splunk** for error analysis.
- Built SPA's, HTTP interceptors, and filter grids in **Angular** & **CSS** and processed large volumes of records efficiently and leveraged Lucene indexes and advanced search algorithms to boost performance by 41%.

Senior Software Developer *January 2018 – September 2021*
Quovantis Technologies (Emids), India

- Integrated routing in **React** app, synchronized frontend logs with **Azure Application Insights** for streamlined debugging, and enabled real-time monitoring of app performance through **Azure telemetry and metrics**.
- Created **CI/CD** pipleline on **Jenkins** to minimize the risk of error and improving code quality of product.
- Overcame challenge of managing high-concurrency transactions totaling 17 million Euro by leveraging **Azure Message Queues** & .NET, resulting in successful transactions and their reversal with zero errors.
- Developed a **REST API** using **.NET Core** for a healthcare product serving over 100,000 patients. Integrated features such as **Redis Cache**, email functionality, and precise PDF generation.
- Updated and constructed new **T-SQL** stored procedures, functions, and views on **Microsoft SQL Server**, replacing LINQ and increasing application's performance by 11%.
- Demonstrated initiative by creating a **C#**, .NET tool to automate tedious processes of updating XML files containing rules for health diagnosis, tests for patients, resulting in a substantial 99% reduction in errors.

Projects

Encryption Algorithms Analyzed encryption and decryption algorithms (AES, SHA256, SHA512, RSA, DSA) using **Python Pycryptodome** library for secure data transmission.

Raft Algorithm in Distributed Systems Implemented Raft algorithm in **Golang** for node leader election and log replication, following principles outlined in research paper.

Chandy Lamport Algorithm of Distributed Snapshots Devised a consistent global state recording algorithm in **Go** for asynchronous systems as given in Chandy-Lamport paper, ensuring reliable data snapshots.

Technical Skills

Languages: C#, SQL, .NET, Typescript, Entity Framework, Angular, JavaScript, Python, MSTest, CSS
Tools: Git, Azure, TFS, MS Dynamics CRM, Jira, Visual Studio, Splunk, Karma, Unit tests, Power BI
Machine Learning: Keras, PyTorch, Scikit-Learn, spaCy, NumPy, Pandas