Anoop V K

Software Engineer with over 3 years of experience, skilled in rapidly learning and applying new technologies, with demonstrated expertise in understanding system requirements, designing architecture, development, testing/QA, and managing production environments

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Relevant Experience

Software Engineer · RCKR Software July 2021 — Present

- **Implemented and deployed a Dockerized resource server in Azure** with multi-tenant authorization and authentication using **OAuth 2.0**, leveraging **.NET Core** for backend services. Integrated **OpenTelemetry** for telemetry and connected to **Datadog** for monitoring.
- **Architected a microservice using .NET Core** to generate secure, asynchronous PDF exports of patient data, deployable as an **Azure Function** for scalability and cost-efficiency.
- Created a cost-effective audit log archiving tool using **Apache Parquet** with **SQL Server**, reducing client costs by optimizing storage.
- **Architected and developed an Angular-based widget** for storing insurance information, enhancing user accessibility for 3 million users, and interfacing with SQL Server for data storage.
- Integrated microbiology data using the **FHIR standard** in a .NET application, improving the data management of blood test results.
- Developed visually engaging graphs with **D3.js** in an **Angular application**, enhancing data analysis and decision-making.
- Integrated health devices like Fitbit, Garmin, and Omron in a .NET backend, improving user experience and data synchronization.
- Led the **deployment of Android and iOS** applications built with **Cordova**, enhancing system accessibility and user engagement.
- Mentored and trained junior team members, fostering a collaborative and skilled development team
- Optimized deployment processes with **PowerShell scripting**, enhancing system efficiency
- Implemented internal API endpoints using **ASP.NET Core** for streamlined testing, significantly expediting access to test user data.

Software Developer Intern · Crevice 2020 — 2021

- Developed web applications using **React.js**, gaining hands-on experience in front-end development.

Selected Projects

AI SQL Chatbot
Developed a chatbot that dynamically creates and executes SQL queries on a relational database with the capability to switch between different LLMs for tailored responses and solutions.

Social Distancing Detector
Developed a social distancing detector that uses surveillance cameras to monitor and alert people to maintain safe distances, built with Python, OpenCV, threading, and Firebase.

QuickSqlServerSnippets VSCode Extension
Developed a VSCode extension for managing and executing SQL queries on SQL Server databases directly from the editor. It uses the Command Palette to save, run, and delete queries through a simple interface. Built with TypeScript and NodeJS.

Skills

Programming Languages
C#, JavaScript, TypeScript, Python, SQL

Libraries & Frameworks
.NET Framework / .NET Core, Angular, RxJS, Hangfire, Cordova, Apache Parquet, OpenTelemetry, LangChain

Tools & Platforms
Docker, Docker Compose, Kubernetes (basic), Redis, Firebase, MS SQL, Azure, OAuth 2.0 / OIDC, Git, PowerShell scripting

Education

MES College of Engineering
Bachelor of Technology in Computer Science 2017 — 2021

Interests

Trekking, Time travel movies, Psychology, Badminton