Varun Gunasekaran

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Senior Software Engineer

I'm a Software Engineer with 4+ years of hands-on experience in designing and delivering scalable, cloud-native web applications across healthcare, compliance, and enterprise domains. I've worked on modernizing legacy systems and leading micro-frontend implementations using Angular, React, .NET Core, PostgreSQL and Azure.

I specialize in architecting high-level and low-level designs (HLD/LLD), crafting RESTful APIs, and applying strong DSA fundamentals to solve complex problems efficiently. My recent work involved integrating multiple UI frameworks into a unified platform, improving delivery speed by 30%.

I thrive in Agile teams, contribute actively to architectural decisions, and take pride in writing clean, maintainable code that drives real business value.

WORK EXPERIENCE

ValGenesis   Sep 2023 - Present
Senior Software Engineer • Full-time   Chennai

- **Architecture Research & Framework Design**: Led architectural research efforts focused on Micro-Frontend (MFE) integration. Designed a framework allowing apps built in any UI technology to run seamlessly without iframes, enabling unified rendering across the platform.
- **Real-Time Collaborative Systems**: Developed a real-time communication and collaborative review system within the workflow module using **SignalR**, enhancing feedback loops during multi-stage approvals.
- **Distributed Systems & Messaging**: Leveraged **Redis Pub/Sub**, **.NET Core**, and **PostgreSQL** to build scalable and responsive backend services.
- **Cloud-Native Deployments**: Managed deployments using **Azure Kubernetes Service (AKS)** and **Azure API Management (APIM)**, ensuring reliability, scalability, and observability in production environments.

SOFTWARE ENGINEER • Full-time   Chennai, India

- **Micro-Frontend Modernization**: Upgraded the frontend using **Single-SPA** to enable Micro-Frontend architecture. Integrated **React** for modular UI components, improving code reusability and performance.
- **Reusable Dynamic Form Builder**: Built a customizable UI form builder library that can be integrated into any frontend application, reducing manual configuration and boosting developer productivity.
- **Workflow Automation System**: Implemented a stage-based workflow engine to handle approval and review flows tailored to dynamic business logic.
- **Backend Development & Microservices**: Developed scalable backend services using **.NET Core** and **PostgreSQL** in a microservices setup, ensuring robust data processing and management.
- **DevOps & CI/CD Pipelines**: Automated software lifecycle with **GitHub Actions**, improving delivery speed and reducing deployment errors.

- **Cloud Infrastructure Setup**: Set up and managed infrastructure on **Azure**, including containerized deployments via **AKS** and API management with **APIM**.

Telliant Systems   **May 2021 - Aug 2023**
SOFTWARE ENGINEER • Full-time   **Chennai, India**

- Developed and maintained web applications using various programming languages, frameworks, and libraries like Angular, .NET Core, SQL, React, C#, Azure, GCP, GraphQL, Elstack, d3.js, billboard.js and SERP APIs.
- Implemented responsive design and ensured cross-browser compatibility for web applications.
- Conducted code reviews, wrote unit tests(xUnit), and performed debugging and troubleshooting to ensure high-quality code and minimal defects.
- Deployed web applications to various hosting environments such as Azure, Google Cloud, and IIS.
- Successfully migrated the old version of Angular from 7 to 14, improving the overall performance and user experience of the application.
- Migrated from .NET 2.2 to .NET 6, bringing the application up to date with the latest technology stack.
- Developed new features for the application, including patient management, appointment scheduling, and billing.
- Integrated third-party tools such as Imaging tools for X-rays and Scriptsure for prescriptions, improving the functionality of the application.
- Setup Azure pipeline and deployed the application to the cloud, ensuring high availability and scalability of the application.

EDUCATION

B.E in COMPUTER SCIENCE
PERI INSTITUTE OF TECHNOLOGY • GPA: 8.2   Chennai, TN • Jun 2017 - May 2021

CERTIFICATIONS

Foundations: Data, Data, Everywhere
Google
Ask Questions to Make Data-Driven Decisions
Google
Process Data from Dirty to Clean
Google
Prepare Data for Exploration
Google
Python
University of Michigan

AWARDS & SCHOLARSHIPS

Code Master   Mar 2025
Valgenesis
STAR Employee of the Quarter awards
Telliant

Frontend Technologies

- Angular
- Javascript
- Jest
- Module Federation
- Next.js
- React
- Single SPA
- Typescript
- UI Library components
- Vite
- Vitest
- Web components
- Webpack

Backend Technologies

- C#
- Class library
- KeyValut
- Liquibase
- MS SQL
- .NET Core
- OpenTelemetry
- Polly
- PostgresSQL
- Redis
- SignalR
- Web API

DevOps

- ACR
- APIM
- App service
- Azure DevOps
- Azure Front Door
- Git Actions
- Storage Account
- WAF

Containerization, Deployments and Gateways

- APIM
- App services
- Container Instance
- Docker
- Kubernetes

Data Visualization Libraries

- Billboard.js
- D3.js
- Jeager
- Kibana

Cloud Platforms

- Azure
- GCP

Web Servers

- IIS

API Technologies

- GraphQL
- gRPC
- REST

Messaging System

- Kafka