

# Sethu Manikkam S

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## PROFILE SUMMARY

Software Engineer with **1.8 years** of experience in the full product lifecycle from requirement analysis and solution design to development, testing, deployment, and iterative improvement. Proficient in the **.NET ecosystem, including C#, ASP.NET Core Web API, and Entity Framework Core**, with experience in **SQL Server** database design and optimization and **Agile development**.

## TECHNICAL SKILLS

**Languages:** C#, Python, SQL, JavaScript, HTML / CSS

**Frameworks & Libraries:** ASP.NET Core, Entity Framework Core, Django

**Databases:** Microsoft SQL Server, MongoDB

**Developer Tools & Platforms:** Git, Bitbucket, Postman, Visual Studio, SSMS, Firebase Cloud Messaging (FCM)

**Security & Authentication:** JWT, OAuth 2.0, Role-Based Access Control (RBAC)

**Practices/Methodologies:** Agile, Code Reviews, Unit Testing

## EXPERIENCE

### Software Engineer II

Sept 2025 – Present

*JuzGoDigital*

*Coimbatore, TN*

- Developed and enhanced key features for **JGDHealth** (a comprehensive Hospital Management SaaS platform), supporting over **1 million patient records** across modules like EMR, Lead Management, IVR (Interactive Voice Response), a mobile application, and patient communication.
- Refactored complex T-SQL queries on tables with millions of rows by introducing proper indexing and converting row-by-row joins into set-based operations, reducing query execution time from indefinite stalls to milliseconds and enabling database scalability.

### Software Engineer I

Jun 2024 – Sept 2025

*JuzGoDigital*

*Coimbatore, TN*

- Built 'Pay Later' feature** using a multi-branch wallet. Developed the core logic in a single, complex stored procedure to handle all the payment settlements and keep the financial data accurate.
- Implemented a **real-time caller ID** feature that instantly surfaced patient history and key details from incoming IVR calls reducing the average agent response time by **30%**
- Automated routine vaccination scheduling** by engineering a module that dynamically generated and scheduled future appointments, saving an estimated **20 administrative hours per week**.
- Drove patient engagement by architecting a **.NET Core and FCM-based notification system** that delivered appointment reminders and care instructions to over 10,000 active users.

### Software Intern

Mar 2024 – Jun 2024

*JuzGoDigital*

*Coimbatore, TN*

- Enabled new patient engagement channels** by integrating the Gupshup WhatsApp Business API into the .NET Core backend, **leading to more efficient automated messaging campaigns** and **improved patient communication workflows**.

### Application Development Intern

Feb 2024 – Mar 2024

*VPearl Solutions Pvt Ltd*

*Chennai, TN*

- Developed and deployed 10+ RESTful API endpoints using the Django REST Framework, implementing OAuth 2.0 to secure sensitive user data for a client-facing application supporting over 500 daily requests.

### Project Intern

Feb 2021 – Jun 2021

*Denvik Technologies Pvt Ltd*

*Chennai, TN*

- Engineered an end-to-end IoT aquaponics monitoring system, from data acquisition with an STM32 microcontroller and environmental sensors (pH, temperature, turbidity) via LoRa, to a cloud backend featuring a Flask API, MongoDB database, and a production deployment on AWS EC2 with Gunicorn and Nginx.

## EDUCATION

### BSA Crescent Institute of Science and Technology

Chennai, TN

*Bachelor of Technology in Electronics and Communication Engineering*

*Jun 2017 – Jun 2021*