

SANJAY NAGARAJAN

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CAREER OBJECTIVE

Highly motivated **Full-Stack Engineer** with **2 years** of experience specializing in robust application development across **Python**, and modern front-end technologies. Proficient in delivering enterprise-grade **Microservices Architecture** using **Python FastAPI**, coupled with dynamic user interfaces built using **Angular** and **TypeScript**. Proven expertise extends to the entire **SDLC** (Software Development Lifecycle), including **Data Modeling** and complex **Query Optimization** in **SQL Server** and **MySQL/MongoDB**. Experienced in implementing **CI/CD Pipelines** with **Docker** and **Kubernetes (K8s)** orchestration, ensuring deployment to **Azure Cloud**. Eager to apply proficiency in **Agile Scrum** practices, **Junit/Mockito TDD**, and **SonarQube** analysis to drive **high-quality** software solutions and organizational success.

PROFESSIONAL EXPERIENCE

TMACHO SOFTWARE TECHNOLOGIES

COIMBATORE

Software Engineer Intern

Feb 2024 – May 2024

- Developed highly responsive **Full-Stack** interfaces using **Angular** and **TypeScript**, integrating seamlessly with **RESTful API** services developed in **Python FastAPI**
- Mastered **SQL Server 2019** for foundational **Database Design** and advanced **Query Optimization**, creating scalable objects including complex **Stored Procedures**, **Triggers**, and **User-Defined Functions**.
- Automated data handling and enforced business logic by writing complex **Stored Procedures** and **Triggers**, reducing manual data reconciliation effort by **15 percent** and improving data integrity.
- Delivered critical **Data Reporting** solutions by developing and integrating dynamic, scheduled **SSRS Reports** directly into the **Angular Front-end** for enhanced regulatory and management visibility.

TMACHO SOFTWARE TECHNOLOGIES

COIMBATORE

Software Engineer

Sep 2024 – Nov 2025

- Designed and implemented robust **Data Management** and **Data Reporting** solutions leveraging **SQL Server 2019**, including complex **Stored Procedures**, **Triggers**, and **Indexing** for maximized **Query Optimization** and **high-performance** processing.
- Engineered highly performant **RESTful API** endpoints using **Python FastAPI** within a **Microservices Architecture**, ensuring seamless **full-stack** integration with the **Angular** and **TypeScript Front-end**.
- Developed and scheduled **Business Intelligence (BI)** artifacts and **SSRS Reports** (interactive, paginated) for critical regulatory and management **Data Reporting** needs, supporting key organizational decisions.
- Streamlined **CI/CD Pipelines** and managed **Containerization** using **Docker** and **Kubernetes (K8s)** orchestration to facilitate fast, secure deployment of services to **Azure Cloud**.

PROJECT

Bank Reporting App

- Architected and maintained a critical, **Full-Stack** web-based Banking Reporting System that enabled bank employees to generate, view, and export complex **Regulatory Reports** and **Business Intelligence (BI)** artifacts.
- Developed highly secure and scalable **RESTful API** services using **Python FastAPI**, achieving a **20 percent increase** in response speed for high-volume data retrieval requests from the **Angular Front-end**.
- Engineered data transformation and loading processes (ETL) using SSIS to consolidate raw financial data into the **SQL Server** data warehouse, ensuring **data integrity** and readiness for reporting.
- Delivered scheduled and interactive **SSRS Reports** for management, utilizing **Query Optimization** techniques in **SQL Server** to decrease report generation time by an average of **10 seconds**.
- Leveraged Angular and TypeScript for the client-side, implementing **responsive design** and managing state to provide a seamless UI/UX for users accessing regulatory and compliance data.

Employee Management

- Built and maintained a core **Full-Stack Employee Management System** utilizing a **Microservices Architecture** to manage employee onboarding, profile data, and dynamic reporting for organizations of various sizes.
- Developed highly secure and scalable **RESTful API** services using **Python FastAPI** to handle high-volume employee transactions, integrated with Angular and **TypeScript** for profile management and attendance tracking.
- Engineered data transformation and loading processes (ETL) using SSIS to consolidate raw financial data into the **SQL Server** data warehouse, ensuring **data integrity** and readiness for reporting.
- Delivered scheduled and interactive **SSRS Reports** for critical HR functions, including payroll summaries and attendance logs, with flexible export options (**Excel**, **PDF**), utilizing **Query Optimization** in **SQL Server**.
- Supported CI/CD Pipelines and managed **Containerization** using **Docker** and **Kubernetes (K8s)** orchestration to facilitate fast, secure deployment of employee services to **Azure Cloud**.

TECHNICAL SKILLS

Cloud and DevOps: Azure Cloud, Kubernetes (K8s) (Container Orchestration), **Docker** (Containerization), CI/CD Pipelines, Jenkins, Git, GitHub or Bitbucket, SonarQube (Code Quality), Jira

Back-End and Core: (Microservices Architecture), Python (OOP, AsyncIO), FastAPI (RESTful API Design), Spring Security, Saga Design, KAFKA

Front-End and UI: Angular (TypeScript, RxJS), Component Architecture, Routing, JavaScript (ES6+), HTML5, CSS3, Responsive Design, PrimeNG

Databases and BI: Microsoft SQL Server (T-SQL, Query Optimization, Indexing, Stored Procedures, Triggers, Functions), MySQL, MongoDB (NoSQL), Redis Cache, SSRS (Data Reporting), SSIS (ETL)

Quality and Automation: Junit or Mockito (TDD), Maven or Gradle (Build Automation), Agile Scrum, JMeter (Load Testing), Postman or Swagger (API Documentation)

ACADEMIC PROFILE

B.E [Computer Science Engineering]	Jul 2020 – May 2024
Anna University Regional Campus, Madurai	CGPA: 7.5/10
HSC [Computer Science]	Jul 2019 – May 2020
Syed Ammal Matric Boys Higher Secondary School , Ramanathapuram	Percentage : 85
SSLC	Jul 2017 – May 2018
Syed Ammal Matric Boys Higher Secondary School , Ramanathapuram	Percentage : 95

CERTIFICATION

SQL Intermediate — SoloLearn	<i>Issued: August 10, 2024</i>
Credential ID: CC-E4ERF5D7	

SOFT SKILLS

- **Problem-Solving:** Applying strong **Critical Thinking** and **Analytical Thinking** to diagnose and resolve complex technical challenges across the **Full-Stack** (Front-end, Back-end, and Data layers).
- **Team Collaboration:** Proven ability to work effectively within **Agile Scrum** teams, contributing to sprint planning and facilitating cross-functional communication with stakeholders.
- **Adaptability:** Quickly mastering new technologies and tools, including the seamless integration of both **Spring Boot** and **Python FastAPI** frameworks in a modern **Microservices Architecture**.
- **Communication:** Clearly articulating technical requirements, solutions, and project status in daily stand-ups and documentation (e.g., using **Swagger** for API clarity).
- **Ownership Initiative:** Driving features from inception to production deployment using automated **CI/CD Pipelines** and **Azure Cloud** environments.