

SAYANTAN KUNDU

TECHNOLOGY ANALYST 📍 PHILADELPHIA, 19426, UNITED STATES ☎ 610 787 4040

◦ DETAILS ◦

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◦ LINKS ◦

[LinkedIn](#)

◦ SKILLS ◦

MongoDB
Node.js
React
HTML & CSS
SQL
ASP.NET MVC
JavaScript
Python
Postgres
Node-Red
Loopback Framework
.NET Web API
Docker
Kubernetes
REST API
Unit Testing

👤 PROFILE

Results-driven Technology Analyst with 5 years of experience in financial application development using NodeJS. Proficient in .NET and Python for travel website clients. Skilled in analyzing complex requirements, designing scalable solutions, and delivering high-quality software. Collaborative team player with expertise in agile methodologies and effective communication. Committed to continuous improvement and client satisfaction through innovative solutions and staying updated with the latest technologies.

📁 EMPLOYMENT HISTORY

Technology Analyst at Infosys Ltd., Bengaluru

October 2021 — July 2022

- Oversaw technology services delivery, consulting with relevant personnel to assist with migration and troubleshooting.
- Led weekly cross-functional team meetings to drive continuous technical improvements.
- Provided technical and functional recommendations based on project requirements.
- Collaborated with project teams to support new or enhanced products.
- Extensively used the ASP.NET MVC in the Finacle Application in the following ways:
 - Designed views that display financial data, such as account balances, transaction history, charts, and reports for different user groups.
 - Defined controllers that receive user input as form submissions, and process it accordingly to initiate transactions under a master application.
 - Implemented authentication and authorization, ensuring that only authorized users can access sensitive information or perform specific actions.
- Extensively used the ASP.NET Web API in the Finacle Application in the following ways:
 - Exposed endpoints that provide financial data, such as account balances, transaction history, investment portfolios, and market data. These endpoints can be consumed by different clients or even other services within other applications that provide proper credentials.
 - Used to build integration endpoints that communicate with payment gateways, banking APIs, or market data providers as external systems and retrieve or update data as needed.
 - Created authentication mechanisms like token-based authentication or OAuth to secure access to your API endpoints.

Senior Systems Engineer at Infosys Ltd., Bengaluru

October 2020 — September 2021

- Project - **Finacle Banking Solutions**
- Working on the Indian Payment System - **IMPS** currently.
- Developed and **designed** and flow for the 24*7 architecture of IMPS and added it as a standalone application under the Finacle Payment System.
- Worked on refactoring the application to handle all different micro-services to accumulate the bank servicing parameters and maintenance of accounts and IFSC of a bank and to use it with the processing of the main application properly, have been kept by the **Law of Demeter** (The Principle of Least Knowledge) for the refactoring.
- Worked on creating a **Decision Engine** for different scenarios of a Payment cycle. The failure scenarios and blocking conditions are being handled to reduce the wait time of a particular Payment life cycle.

- Extensively used the **Mocha & Chai** framework to write and implement test suites for the whole Payment Services which will cover more than 90% code coverage.
- Started working on the **payment initiation pages** for the UPI and IMPS using HTML5, CSS, and ReactJs. The UI interface will handle all the different stages of the payment system till the UTR generation or the reason for failure if any.
- Started working on the **docker** services to manage the CICD pipeline, as the application needs to be hosted for the testing, performance, and PRT teams.

Systems Engineer at Infosys Ltd., Bengaluru

September 2018 — September 2020

- Project - **Finacle Banking Solutions**
- Worked on creating a standalone micro-service to handle the different message transformations (XML, Tag, etc to JSON) in the Payment System.
- Worked on creating a fully functioning micro-service to generate and maintain the Mandates of a Payment Service using the Finacle Core Banking App and the Message Handling micro-service using **REST** services.
- Extensively used the **Loopback** Framework by IBM to provide and generate the REST services for the connectivity of the micro-services.
- Used and implemented the **node-red** flow services to organize, maintain and create scalable code structure for faster development of payment services as and when required.
- Used the **RabbitMq** Message Queuing Service for the smooth transfer of data as most Banking Application requires 0 loss of data in the network.
- Co-developed the Indian Payment Service for **NEFT & RTGS** using the functional requirements from the RBI and used the **MongoDB** for development of the backend.
- Worked on RBI guidelines to manage changes in the NEFT and RTGS system to accommodate 24*7 user experience.
- Started to create web pages for the application interface for an end user trying to initiate **NEFT & RTGS**. There were payment initiation screens created using **HTML5 & CSS**.
- After the basic structure of the initiation screens, the request API was controlled using **ReactJs**, making the payment initiation screen dynamic.
- Error in user data and the status of Payment initiation were handled using the ReactJs. The process update is in various stages of validation and the end UTR generation of payment is also handled. The UTR is to be shown to the end-user or the process validation failure, and the reason for the failure was shown in the initiation screen.
- Created robust and scalable functions which will be re-usable for any payment systems which later are to be added to the Banking Application.

Junior Developer at Infosys Ltd., Mysore

April 2018 — September 2018

- Trained under the Infosys Training Center, Mysore. Completing the 1st leg of the course by learning Python and OOPS.
- Completing the 2nd leg of the course by learning Java, Springboot, and making an application using Oracle DB.
- Completing the 3rd leg of the course by learning HTML, CSS, and AngularJs to make a UI for the application created in JAVA.
- Overall had an experience and knowledge of what is REST API, and how to build and access one.
- The understanding of making a standalone application for retail service.

Data QA Analyst at eClerx Services, Pune

November 2016 — March 2018

- Worked in cleaning and scanning high-performance and extensive data in the travel industry to create dynamic pricing for all days across the world to keep client company with competitive pricing using VB script.

- Worked on creating a web crawler to fetch pricing data from various websites and comparing it with the client's data set to find standard deviation and creating an automated update and renewal system in the website using **Python** scripting and the use of XML tags.

★ OTHER EXPERIENCES

Teacher Assistant, Temple University, Philadelphia

January 2023 — May 2023

- Worked as a Teaching Assistant for an undergraduate course - CIS 5331 under Prof. Cindy Li in the Department of Computer and Information Science.
- Conducted Lab for Oracle SQL server with a final project with a presentation from the students where they created the whole database where they got to use the end-to-end design to implementation process from ER to Relational diagrams and then implementation.
- Experience with conducting student discussions and query clearance as part of the TA office.

Student Worker at Dept. of EHSA, Temple University, Philadelphia

June 2022 — May 2023

- Worked extensively on MS Excel for the department of EHSA for the chemical inventory migration.
- Created a dashboard with raw data for housing radiation testing which is being used by the healthcare facilities.
- Migrated database set in local machines using Maria DB to create a local copy for office purposes.
- Created a VB script macro for ease of work for various manual works done in the office.

🎓 EDUCATION

Master of Science in Computer Science, Temple University, Philadelphia

September 2022 — May 2024

- Current GPA - 3.23
- Completed courses which include - Design of Algorithms, Human-Computer Interaction, Operating System, Distributed System, and Network and Information Security.
- Worked on hands-on projects:
 1. Design of AI language model tool for para lingual.
 2. Design of AES encrypted end-to-end system which uses real-time data for mortality rate prediction in hospitals.
 3. Presented research topic on Proof-of-Stake in Blockchain Technology

Bachelor of Technology in Electronics and Communication Engineering, West Bengal University of Technology, Kolkata

September 2012 — June 2016

- Final graduation CGPA - 8.28/10
- Taken courses that are relevant to the field like Computer Architecture, Java Programming, Basics of Data Structure and Algorithms, and Database Management Systems.
- Worked on projects like creating standalone applications using .NET and static webpages and created a website for photography enthusiasts.