DIPIKA SENGUPTA

SENIOR SOFTWARE DEVELOPER ⚲ BANGALORE, INDIA ☎ +917561829066

○ DETAILS ○

Bangalore
India
+917561829066
senguptadipika30@gmail.com

Date of birth
30.12.1994

○ SKILLS ○

Python

Asyncio

PostgreSQL

Redis

Celery

SQL

Docker

JavaScript

Typescript

Grafana

C# .Net

Unity + Vuforia

○ LANGUAGES ○

English

Hindi

Bengali

PROFILE

Software Engineer with more than 6 years of development experience, familiar with the end-to-end Software Development Life Cycle. I follow clean code practices and try to write reusable and robust code for large applications. I actively participate in community network-building and collaborate across and within multiple teams.

EMPLOYMENT HISTORY

Senior Consultant at Ernst & Young, Bangalore
January 2022

- Developed a module for production planning using **Asyncio**, **PostgreSQL**, **Celery**, and **Redis** as the message broker for Operations Research calculations. The usage of Celery improved performance by 60%. The microservice was designed in a way that users can personalize components in the front end and accordingly, the data for those components are fetched and processed to show.
- Designed and developed a chat module with **Redis Stream** for real-time data transmission for handling high-volume data flow.
- Designed a flexible **Master Data Management system** that integrates data from multiple modules. It has a front-end interface to upload data in Excel or CSV format. The application is capable of accommodating the format and validation requirements for each module.
- Followed **Agile** in all the projects and used **Github** for version control and collaboration. Introduced compulsory Code Reviews. Made it a compulsory part of the process of merging the code branch.

Research & Development Engineer at ABB, Bangalore, India
September 2017 — January 2022

Plant Asset Condition Monitoring:

- Developed Python scripts for anomaly detection in industrial equipment data. Deployed the solution as **Docker** images on the client's machine.

ABB Ability IoT Platform for Metals Industries:

- Led the creation of an IoT platform that collects, stores, and visualizes data for real-time dashboard applications. Customized reusable plugins and widgets with **Kendo UI** and **Plotly** charts in **Grafana** using **Typescript**.
- Built a **C# .Net** application for automated email notifications.

ABB Ability Sitewalker App for Industrial Users:

- Created industrial maintenance collaboration app. Developed **.Net** standard framework Web API hosted on Azure cloud.

★ CERTIFICATION

DLT Talent - Frankfurt School Blockchain Center

DLT Talent: Completed a rigorous 18-week online women-only talent program focused on blockchain, crypto assets, and Distributed Ledger Technology through the Frankfurt School Blockchain Center, having been chosen as one of 200 participants out of a

competitive pool of 700 applicants.
Certificate: https://web3-talents.io/dlt-talents/certificates/dipika-sengupta

INTERNSHIPS

Research Intern at ABB, Bangalore
January 2017 — July 2017

Augmented Reality-Based Techniques for Servicing Process Instruments and Analyzers: Designed and developed an AR app for service engineers for commissioning and maintenance in the factory. The application shows real-time data from a server. The application shows a step-by-step guide to a service engineer on how to commission a device.

Intern at Ernst & Young, Thiruvananthapuram
July 2016 — December 2016

Blockchain on Clinical Trials: Developed the front end of a blockchain-based DApp which stores the data used in clinical trials in blockchain
Technology used: **Javascript**

EDUCATION

Master's in Computer Science and Information Security , Indian Institute of Information Technology and Management - Kerala, Thiruvananthapuram
June 2015 — July 2017

Bachelor's in Computer Science, University of Calcutta, Kolkata
July 2012 — April 2015

EXTRA-CURRICULAR ACTIVITIES

- Organized a workshop on Augmented Reality and trending technologies at PSG College of Technology, Coimbatore. Presented a talk on trending technologies and conducted a hands-on session on creating an AR application to display a 3D model with animation.
- Certified Lean Six Sigma Yellow Belt