

Surya Sekhar Datta

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EDUCATION

- **Institute of Engineering and Management** Kolkata, India
Bachelor of Technology - Computer Science Engineering; GPA: 9.28 *August 2019 - July 2023*
Courses: Operating Systems, Data Structures and Algorithms, Cloud Computing, Computer Networks, Database Management Systems
- **South Point High School** Kolkata, India
Higher Secondary Education - Computer Science; Percentage: 90.4% *April 2018 - March 2019*

SKILLS SUMMARY

- **Languages** Python, JavaScript, SQL, C, C++, Bash
- **Frameworks** Django, Flask, OpenCV, Selenium, ReactJS, NextJS, NodeJS, Jinja2
- **Tools** Docker, GIT, PostgreSQL, MySQL, Firebase, Postman, Helm Charts, Apache Solr
- **Platforms** Linux, GCP, AWS, Azure, Azure DevOps, Raspberry Pi
- **Soft Skills** Leadership, Event Management, Public Speaking, Teamwork, Communication, Google-ing
- **Certifications** AZ-900, DP-900, AI-900

EXPERIENCE

- **Tata Consultancy Services (TCS)** Kolkata, India
Systems Engineer (C1) *August 2023 - Present*
 - Implemented Application CI/CD Pipelines for multiple projects using Azure DevOps, Git, Docker, Helm Charts, GitHub Actions, ACR, AKS, Grafana, Prometheus, Application Insights, Application Gateway, APIM, Key Vault, Sonar Qube, and other technologies including Apache Solr, Sanity CMS, etc.
 - Designed and Implemented Data Ingestion and Processing Pipelines using Azure Data Factory, Azure Data Bricks, and Azure Data Lake Storage for an S&P 500 Client, enhancing operational efficiency and providing greater insights into the data.
 - Optimized Application Infrastructure for a reputed Global Client, resulting in 30% lower Azure costs.
 - Developed several Automation Scripts using Python, Shell Scripting, and Azure CLI to automate daily tasks and improve the efficiency of the testing process.
- **IEMA Research & Development** Kolkata, India
SDE Intern *March 2021 - June 2022*
 - Spearheaded Backend Architecture and Database design for one of the flagship products (<https://iemaiwriter.com>)
 - Modelled A Credit-based Subscription System and Payment System for the Website using Stripe and CCAvenue.
 - Developed numerous REST APIs in Django which handled data from the React.js Front-End, and generated text using OpenAI's GPT-3 Text Generation Model in the Backend.

PROJECTS

- **File Stash! (Python-Flask + AWS):** A Simple website to upload and share files that stay on the server for 30 days and auto-delete later on using S3 Lifecycle Management Rules. Built using Flask, it stores files in S3 buckets after encrypting them with AES-256 bit. The application can be accessed via REST APIs as well.
- **vercel_blob (Python Library):** A Open-Source Python wrapper for the Vercel Blob Storage API. This package is available on PyPi, and can be installed using pip. It provides simple and easy-to-use methods to interact with the Vercel Blob Storage REST API, since Vercel doesn't provide an official Python SDK for their Blob Storage API. 5,000+ Pulls on PyPi already!
- **QR Inventory Management App (NextJS + Firebase RTDB):** Built a Drone Equipped with a FPV Camera that will scan QR Codes present on boxes using Python-OpenCV, and will add them to the Firebase RTDB Database. All data will be shown live on the FrontEnd. Authentication is done using NextAuth and Google OAuth.

ACHIEVEMENTS & AWARDS

- Received the distinguished **Maya Chakravarti Memorial Gold Medal Award** for my excellence in academics and contribution towards the institution.
- Distinguished Performance (7th) in Academics, in the CSE Department, in Final Year.
- Winner of Smart India Hackathon 2022 - A National Hackathon organized by the Central Government of India, on a problem statement set by DRDO, India.
- Winner of Postman API Fest 2022 (Top 10 Teams)

LEADERSHIP EXPERIENCE

- **General Secretary at IEM Kolkata** Kolkata, India
Played an active role as the Head of the Student Committee of IEM Kolkata, Batch of '23 *July 2022 - July 2023*
- **30 Days of Google Cloud - Campus Facilitator** Kolkata, India
Mentored 320+ participants and spoke in various sessions teaching about GCP and Cloud. *Sep 2021 - October 2021*
- **Postman Student Leader** Kolkata, India
Global Group of Students (Less than 100 worldwide), encouraging API First Development *Feb 2022 - Dec 2023*