

# Surya Sekhar Datta

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## EDUCATION

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- **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

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- **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
- **Platforms** Linux, GCP, AWS, Azure, Azure DevOps, Raspberry Pi
- **Soft Skills** Leadership, Event Management, Public Speaking, Teamwork, Communication, Google-ing

## EXPERIENCE

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- **Tata Consultancy Services (TCS)** Kolkata, India  
*Systems Engineer* *August 2023 - Present*
  - Implemented Application CI/CD Pipelines for multiple projects using Azure DevOps, Git, Docker, Helm Charts, GitHub Actions, AKS, Grafana, Prometheus, Application Insights, Application Gateway, APIM, and Key Vault and other technologies
  - Designed and Implemented Data Ingestion and Processing Pipelines using Azure Data Factory, Azure DataBricks, and Azure Data Lake Storage for a 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 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

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- **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, 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 Package):** 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 a 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 done using NextAuth and Google OAuth.

## ACHIEVEMENTS & AWARDS

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- 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

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- **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*