Arka Sengupta

Software Engineer - PayU Payments | B.E. (IT) - Jadavpur University

Experienced Software Developer with in depth knowledge of a large payment gateway. Proficient in Python Scripts, Client Integrations, Product Improvements and Security Enhancements in ReactJS (JavaScript) and Spring Boot (Java) Applications.

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📍 Bangalore, India

🔖 arkasengupta.github.io/Portfolio

in linkedin.com/in/arka--sengupta

○ github.com/ArkaSengupta

SKILLS

Python · AWS · React JS · JavaScript · Spring Boot · Java · Machine Learning · Angular · Django · MySQL · AWS KMS · NLP · Matplotlib · Jupyter Notebook · Big Data · Automation · Kubernetes · Docker · Data Science · Git

INTERESTS

- Portfolio Management & Trading – Binance & Kucoin
- Calisthenics
- Chess

WORK EXPERIENCE

Associate Software Engineer
PayU Payments Pvt. Ltd.

07/2023 - Present

Bangalore, India

- Executed data encryption projects with a strong focus on privacy compliance, integrating AWS services such as KMS (Key Management Service) and AWS Secrets Manager, leading to a successful deal closure with a Fortune 10 client.
- Developed a Python Script to automate a data transformation assignment to transfer around 2.5 billion transaction data.
- Designed and developed a role based authorization functionality and an audit history management system for Admin portal.
- Collaborated with banking clients to gather requirements, address issues, and deliver tailored solutions.
- Successfully completed 350+ security enhancements and fixed several vulnerability issues detected by comprehensive security code review of the portals.
- Built a Django application for backend authentication, integrated it with a Spring Boot backend and MySQL database, and deployed the solution on AWS for a new beta product.

Software Engineer Intern
PayU Payments Pvt. Ltd.

01/2023 - 07/2023

Bangalore, India

- Resolved critical last-minute client onboarding issues by fixing several vulnerabilities and implementing comprehensive validation checks
- Conducted thorough troubleshooting and implemented multiple fixes to address integration challenges with third-party software.
- Made several improvements in React and Angular Dashboards with Spring Boot Backends.

Machine Learning Intern
Perfios Software Solutions Pvt. Ltd.

01/2022 - 03/2022

Bangalore, India

- Developed an error detection module in Python to evaluate OCR output, leveraging NLP (Natural Language Processing) techniques to reduce manual processing time by 80% through data analysis and text-vector evaluation.

EDUCATION

Bachelors in Engineering - Information Technology
Jadavpur University

06/2019 - 05/2023

First Class With Honours

- Received Honours in Automata and Compiler, Big Data, Network Security, Pattern recognition and Application, Data Science, NLP and Text Mining.
- Completed a research paper on "**A Deep Learning based Framework for Detecting Depression from Electroencephalogram biomarkers**".

EXTRA CURRICULAR ACHIEVEMENTS

National School Chess Champion U-17 (2018)

World School Chess Championship U-17 Top 22 Qualified (2018)

National University Teams Chess Champion (2019)