Subhrajit Dutta

Portfolio | GitHub | linkedin.com/in/subhrajit-dutta/ | LeetCode
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SKILLS

PROGRAMMING

Over 5000 lines:
Java • C • Python • Javascript
HTML • CSS • Yaml
Technologies:
React • Node.Js • Express • Postgre
• MongoDB • Docker • Kubernetes
• CICD • Web Sockets • Git & GitHub

ACHIEVEMENTS

MLH | Diversion 2k23 - Feb'23
• 8th/1000 Open-Source Contributors. (Link)
• 36th/1200 in Hackathon (Link)
KU HackFest - Aug'22
• 11th/613 in Hackathon.

EDUCATION

UEM, KOLKATA

B.Tech in Computer Science
2021-2025 | Kolkata, WB
CGPA: 8.38/10.0

ST. LUKE'S DAY SCHOOL

ISC (Class XII)
2020-2021 | Kolkata, WB
Aggregate: 86.25%

ST. LUKE'S DAY SCHOOL

ICSE (Class X)
2018-2019 | Kolkata, WB
Aggregate: 89%

COURSEWORK

Data Structures and Algorithms
Object-Oriented Programming
Operating Systems
Computer Networks
Cloud Computing
DBMS
Agile/Scrum

CERTIFICATIONS

• Preparing for Google Cloud Certification: Cloud DevOps Engineer by Google Cloud - Coursera
• Oracle Cloud Infrastructure Foundations - Coursera
• Automating Real-World Tasks with Python - Coursera

EXPERIENCE

MILKVILLA | Software Development Intern

Nov 2024 – Present | Remote
- Led full-stack development of Milkvilla's website using the **MERN stack**, managing both backend and frontend components for a cohesive platform.
- Designed and implemented responsive web interfaces with **React**, ensuring an intuitive user experience across devices.
- Improved **code quality** by contributing to **15+** code reviews, identifying and resolving issues to maintain robust software standards.

PROJECTS

PRATHAMIK | React, Node.js, Python (Link) (Code)   Jul'23

Prathamik addresses challenges in access to quality education with advanced features like real-time video calls, chat, whiteboard, IDE, and an AI bot for doubt resolution.

- Increased user engagement by **40%** through the implementation of **real-time video calls** and interactive content analysis using **web sockets**.
- Developed a cutting-edge **real-time whiteboard** and **IDE**, featuring **OCR** for text recognition and **GPT** integration, **code collaboration**, and **AI-driven doubt resolution**.
- Empowered students with disabilities through **captions**, **text-to-speech**, and **speech-to-text** functionalities, ensuring a fully inclusive learning experience with improved comprehension and participation.

CLOUD-NATIVE-MONITORING-APP | python (Link) (Code) Jun'23

Developed a cloud-native monitoring application that provides real-time insights into CPU and memory utilization on a computer. The application is containerized using Docker and deployed on a Kubernetes cluster.

- Built **Kubernetes Cluster** from Scratch with **Minikube**.
- Setup and Managed **Docker Containers** for Python and Flask Applications into **Kubernetes Pods**.
- Managed Deployment, **Replication**, **Auto-healing**, and **Auto-Scaling** for Kubernetes Cluster.
- Managed Network and Services with **Host IP Allocation** through Proxy on **AWS EC2** and **Route 53**.
- **Reduced downtime by 75%** on production environments by implementing robust deployment strategies and leveraging Kubernetes features.

POSITIONS OF RESPONSIBILITY

GSSoC | Project Mentor (Link)   May'24 – Aug'24

- Fostered **teamwork** and **morale** by nurturing open **communication** among GSSoC participants.
- Provided empathetic **guidance**, empowering mentees to overcome challenges and excel in project goals.

GeeksForGeeks | Campus Mantri (Link)   May'22 – Jun'23

- Empowering communities in colleges via education.
- Mentored **100+** students in learning **Java** and **Data Structures and Algorithms**.
- Debugged code and helped students with their assignments and problems.