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DEBARSHI MAITRA

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WORKING EXPERIENCE

Software Engineer II, Site Reliability Engineering	**Google**	**Sept, 2022 – Present**
	London, UK	**(1 Year 6 Months)**

Working for Traffic Control SRE Team in **Google Cloud Platform (GCP)** Product Area

- Actively working on **GICS** (aka **Google Infrastructure Configuration Server**), a configuration management system that manages and pushes configuration for multiple Google infrastructure Systems like **GSLB** (aka **Global Service Load Balancer**).
- **Designed**, **built** and **rolled out** a new tool called **Spanner-Cleaner** for **GICS**, which can automatically clean up outdated configurations from **GICS**'s complicated configuration management workflow.
- Initiated and completed the turnup process of multiple deployments of **GICS**'s **Config-Updater** binaries on **Pod**, a managed production platform for hosting **Google Servers**.
- Responsibility also includes **oncall**, development and building tools and automations for effective **monitoring**, **logging** and **alerting**.
- **C++   Python   Go**

Software Development Engineer Intern	**Increff**	**Jan, 2022 – May, 2022**
	Bangalore, India	**(5 Months)**

Contributed in the Backend Team of **StoreJini**

- A platform that helps businesses like manufacturers, retailers, wholesalers, to carry out B2B bulk ordering processes online.
- Implemented a feature so that sellers can expose inventory to approved buyers and then they can place bulk orders & that goes directly to WMS for dispatch.
- **Java   Spring   Hibernate   MySQL**

Built a **Point of Sale (PoS) Application (Source Code)**

- This PoS system supports CRUD operations for Brands, Products, Inventory and Orders.
- It provides options for downloading PDF for a customer invoice and TSV for Brands, Inventory & Sales Report.
- **Java   Spring   Hibernate   MySQL   JQuery   Thymeleaf**

ACHIEVEMENTS

- **ACM ICPC (2020):**   Rank: **66 (Kanpur Regional - Certificate), 285 (Gwalior Regional - Certificate)**   Profile Link: **ICPCID**

- **Codechef:**   Rating: **2051 (5 Star – Global Rank: 1832 – Top 1% globally)**   Profile Link: **darth_vader99**

- **Codeforces:**   Rating: **1614 (Expert – Top 8% globally)**   Profile Link: **darth_vader99**

- **Geeksforgeeks:**   Rank in Institute: **8**, Global Rank: **270**   Profile Link: **artiam99**

PERSONAL PROJECTS

MERN Personal Chat App (Live Link -- Source Code)
- Full-stack Personal Chat Web Application for realtime private messaging between users. It supports authentication with JSON Web Token. Server side-rendering is added with Next.js for fast page loading and improving SEO.
- **Next.js   Node.js   React.js   MongoDB   Socket.IO   Semantic-UI-React**

MERN eCommerce Website (Live Link -- Source Code)
- Full-stack eCommerce website for buying and selling products. It supports authentication with JSON Web Token for admin and customer users. Customers can search products by name or brand and Admins can add new products & edit details.
- **Node.js   React.js   MongoDB   Redux   React-Bootstrap**

Linux Heap Memory Manager (Source Code)
- Linux Heap Memory Manager Library for managing the allocated or freed memory in a process. Implemented the **calloc()** and **free()** functions with some additional functionalities from scratch.
- **C   Linux**

C/C++ Memory Leak Detector (Source Code)
- Memory Leak Detector Library for detecting memory leaks and keeping track of structures and objects in a process.
- **C   Linux**

Rubik's Cube Solver (Presentation – Source Code)
- This Rubik's Cube Solver can solve a Rubik's Cube from any of its **43 Quintillion** different combinations in around 100 moves.
- **C++   Arduino**

LANGUAGES AND TECHNOLOGIES

- C++, Python, Go, Java, JavaScript, MySQL, MongoDB, Spring, Hibernate, Node.js, React.js, Next.js, Redux, Socket.IO
- Linux, Git & GitHub, IntelliJ, VS Code, Postman

EDUCATION

Kolkata, India	**Jadavpur University**	**Aug, 2018 – Jun, 2022**

- **Major:** Bachelor of Engineering in Production Engineering, CGPA: 7.66/10
- **Programming MOOCs:** Algorithms & Data Structures, OOP, Operating Systems, DBMS, Networks, System Design.