TUSHAR JAIN

Software Development Engineer

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EDUCATION

Indian Institute of Technology Guwahati   Assam, India
Bachelor of Technology in Computer Science & Engineering   *Jul. 2018 – May 2022*

EXPERIENCE

Software Development Engineer   Jul 2022 – Jul 2023
OLA Electric Pvt. Ltd   *Bengaluru, India*
- Implemented, maintained **micro-services** responsible for product delivery in **Spring Boot/DropWizard.io** with several API endpoints to handle significant **network traffic and gateways** while monitoring them.
- Individually developed and maintained various **plugins/extensions** for **Magento2** WYSIWYG website builder for building a **minimal code content management system**.
- Implemented monitoring of **user activity** through the use of **Moengage WebSDK** which assisted the marketing team to **get insights and layout plan** for future campaigns.
- Built extensible/composable web component for rendering **geographical data** via **MapLibre** libraries for displaying legend **information about company services**.

PROJECTS

Seam Carver | Individual Project   Apr 2024
Tech: *C, STB Image Library*   Git Repo
- A basic implementation of the seam-carving algorithm in C to resize image across one axis without losing details.
- This Algorithm does not any AI/ML models to achieve the aforementioned goal.
- The program iterates over the image and remove the pixels across a seam with minimum energy as to not disturb the flow of objects.

Social Media Application | Team Project (7 People)   Jul 2022
Tech: *Java, React, MongoDB, Spring Boot, Heroku*   Git Repo
- A social media application with the base functionality of on boarding, posts, reactions, comments, connecting, feed.
- This project focuses on implementing a secure username and password authentication system for accessing and protecting sensitive information.

Tasks Manager | Individual Project   Aug 2024
Tech: *Go, Echo, Postgres*   Git Repo
- A simple task tracking application back-end written in go.
- User authentication is done via JWT.
- Users can manage their plans by creating tasks with detailed description and a due date.

TECHNICAL SKILLS

- **Fundamentals**: Data Structures, Algorithms, Optimization, System Design, Debugging
- **Languages**: C/C++, Go, JS/TS, Java, Python, Rust, Zig, Haskell
- **Frameworks**: Astro, Echo, Fiber, Spring Boot
- **Libraries**: React, AlpineJS, HTMX, SolidJS
- **Database**: MySQL, PostgreSQL, MongoDB, Redis
- **Tools**: Git, Docker, Bash, NeoVim, Make

ACHIEVEMENTS

- **JEE Main 2018**: Ranked 238/1.5M+
- **JEE Adv 2018**: Ranked 490/155K+
- **Leetcode Weekly Contest 373**: Global Rank 202
- **Leetcode Biweekly Contest 117**: Global Rank 540
- **Advent of Code 2023**: Comppleted 13/25 Challenges