

TUSHAR JAIN

Software Development Engineer

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EDUCATION

Indian Institute of Technology Guwahati

Bachelor of Technology in Computer Science & Engineering

Assam, India

Jul. 2018 – May 2022

EXPERIENCE

Software Development Engineer

OLA Electric Pvt. Ltd

Jul 2022 – Jul 2023

Bengaluru, India

- Sole Creator and Maintainer of the internal plugin for collecting end user activity analytics over the system in the **Magento2 CMS** via **Moengage WebSDK**.
- Creator and Maintainer of easy to compose Web Components to display **geo-spatial** data via **MapLibre** libraries, primarily used in the org to display country-wide service info-graphics.

PROJECTS

Nonogram Game (**WORK IN PROGRESS**) | Personal Project

Sept 2025

Tech: Zig, Raylib

Code

- Designed and implemented a fully interactive Nonogram puzzle game in Zig using Raylib, showcasing low-level memory management and graphics programming.
- Built with appropriate data structures to handle puzzle state, validation, and win conditions while maintaining real-time performance including event handling, delivering a minimal gaming experience.
- Puzzle design system is currently in development to allow players to create puzzles and which can be shared.

Seam Carver | Personal Project

Apr 2024

Tech: C, STB Image Library

Code

- An implementation of the **seam-carving algorithm** in C.
- This Algorithm resizes an image across one axis without losing details.
- This Algorithm does not require any ML models to achieve the aforementioned goal, instead by removing pixels along a seam in the orthogonal axis after a computation to determine an energy value of that seam.

Expense Tracker | Personal Project

Apr 2023

Tech: Go, React, Fiber, Chart.js

Code

- Built a full-stack expense tracking application with a Go backend and React frontend, enabling seamless recording, categorization, and visualization of financial data.
- Designed and implemented RESTful APIs in Go with efficient data modeling, and robust transaction handling.
- Delivered a responsive React UI with interactive charts, filtering, improving user experience for managing personal finances.

Social Media Application | Team Project (7 People, Backend Lead)

Jul 2022

Tech: Java, React, MongoDB, Spring Boot

Code

- A social media application with the base features of posts, reactions, comments, connecting, feed.
- This project focuses on implementing a secure authentication for protecting sensitive information.
- As the backend lead of the project, I enhanced my communication skills to ensure information consistency, clarity on goals and deliverables between my team and other leads.

TECHNICAL SKILLS

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

*Elementary Proficiency