

TUSHAR ANAND

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Experience

AsyncApi

Remote

Open Source Contributor

Jan 2025 - Present

- Contributed to the **AsyncAPI CLI** project by adding new commands, enhancing existing ones, and improving test coverage to support reliable development workflows.
- Implemented a new **preview command** enhancing the end user UX, for which a reward of \$200 was awarded under the AsyncApi bounty program.
- Upgraded dependencies while **maintaining compatibility** across AsyncAPI templates to improve performance and maintainability.
- Contributed to the **AsyncApi Studio** project by adding support for **local schema file** previewing with CLI.
- Reduced the build size of **CLI by 40%** by removing the unnecessary dependencies.
- Implemented tests using the **puppeteer** library for headless browser testing of the commands that interacted with studio, increasing the test **coverage by 15%** in overall. A reward of \$200 was awarded by AsyncApi bounty program for the same.
- Improved test infrastructure across **CLI and template repositories**. Submitted and merged a total of **23 pull requests** across CLI and templates repositories.

Creuto

Remote

Software Development Intern

Jan 2025 - March 2025

- Developed the backend for an internal application from scratch for **scheduling meetings** within the company, reducing the need for 3rd party applications and cost by **70%**.
- Developed a **microservice based payment architecture** for **Razorpay** integration with existing infrastructure.
- Developed a **Location and QR-code based attendance system** for a seamless attendance management by the admin and employees.
- Architected the backend infrastructure for a parlour booking application from scratch, incorporating:
 - Integrated **Razorpay** gateway for secure and efficient payment processing with maintaining the logs and history of transaction.
 - Integrated **Firebase Cloud Messaging (FCM)** to deliver real-time push notifications of events such as booking request, confirmation, reschedule etc.
 - Implemented **MongoDB geospatial queries** to enable location-based recommendations based on user proximity and preferences.

Projects

JSON Parser | Python, Typer



- Developed a **CLI based JSON file parser** tool that parses JSON files and converts them to suitable Python objects.
- Used **recursion-based algorithm** to parse the given JSON input and **implemented lexer and parsers** using OOPS concepts for a maintainable architecture.

HTTP Server | Golang



- Built an **HTTP server from scratch** without using any third party library **over TCP**.
- Implemented **Header and body parsing, chunk encoding and route matching**.

Path Finder | React.Js, Typescript, Vite



- Developed a React.JS application to **visually and interactively** demonstrate the traversal of various graph algorithms through **different maze structures** and finding of paths between them using **A*, bfs,dfs** algorithms.
- Implemented features such as allowing creation of custom virtual walls, selecting different start and end points.

Technical Skills

Languages: C++, C, Typescript, Python, SQL, Golang, JavaScript, Bash

Frameworks: React, NextJs, ExpressJs, Hono, AdonisJs, NestJs, Typer

Technologies: Git, Docker, Cloudflare, AWS, Postgres, Github Actions, Kubernetes, Linux

Education

International Institute of Information Technology

Bhubaneshwar, Odisha

Bachelor of Technology in **Computer Engineering**

Aug 2023 - Aug 2027

GPA: 8.5/10.0

- Coursework:** Data Structures And Algorithms, Statics, Computer Architecture and Digital Logic, Microprocessors, Networking.