NAYAN THULKAR

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PROFESSIONAL SUMMARY

Backend Developer with over 2.6 years of experience in developing optimized APIs using Go frameworks. Skilled in middleware authentication, data synchronization, schema design, and database management. Proficient in integrating web APIs, online transactions, and payment flows. Experienced with RabbitMQ, Kafka, CI/CD pipelines, Swagger documentation, and Docker. Demonstrated ability to deliver reliable solutions in production environments and collaborate effectively with cross-functional teams.

WORK EXPERIENCE

Backend Developer | Rupifi, Bangalore, India   Nov 2022 - Nov 2023
- Developed backend for a monolithic checkout system using the Go **Gin** framework, building clean and optimized APIs that reduced latency time by 50% through local caching
- Implemented **middleware authentication** to acquire knowledge of basic security measures
- Collaborated with Tally Solutions on **data synchronization** and configuration management. Designed and implemented a feature enabling 100% collective entity synchronization simply through a set of APIs and database table configuration
- Contributed to **schema design**, gaining proficiency in managing and organizing data at the database level
- Integrated **web-APIs** with the checkout service, implemented scheduling jobs ensuring 100% availability using **cronjob**, and utilized **RabbitMQ** for event consumption. Gained experience in online transaction processes and payment flows

Backend Developer | Delhivery, Bangalore, India   Jun 2021 - Nov 2022
- Developed CRUD APIs using the Golang **Echo** framework. Implemented additional features, resolved bugs, and delivered them to end users in production
- Assisted in implementing producer-consumer architecture, increasing efficiency by 45% with **Kafka** consumers
- Engaged in writing CI pipelines using **GitHub Actions** to achieve 80% automated deployment. Authored **Swagger** YAML files for API documentation and role permission files for Auth0
- Demonstrated a strong understanding of the software development cycle and deployment processes within the organization
- **Dockerized** applications and managed image repositories, optimizing deployment processes

PROJECTS

Anonymous Chat App (Echo Box)   Aug 2024 - Present
- Built real-time chat web application from scratch using **React.js** and **Golang** with **JWT** authentication for user login/logout functionality.
- Used **WebSockets** for real-time communication with server. User can also explore new friends just by clicking a button. Backend is design to create a pool of users trying to exploring new friends and is handled completely **asynchronously** using **go-routines** and **channels**.
- Deployed on **AWS EC2** instance supporting automation using **CI pipeline**, **github-actions** and **docker**.

Portfolio Website (Portfolio)   Dec 2022 - Present
- Created a dynamic portfolio website using **React.js**, showcasing projects and skills effectively
- Implemented a 3D sphere within the About section using **THREE.js**, enhancing visual engagement with multi-directional rotation
- Constructed and deployed frontend and backend services, hosted on an **AWS EC2** instance
- Automated CI/CD pipeline using **GitHub Actions** for continuous integration and deployment

EDUCATION

Indian Institute of Technology, Patna   Jul 2017 - Apr 2021
BTech in Computer Science

ACHIEVEMENTS

- Demonstrated proficiency by solving over 600 problems across various online platforms, including **Codeforces** and **LeetCode**
- Achieved a Codeforces rank of **1536** (Maximum)

SKILLS

Golang | Python | C++ | Postgres | HTML | CSS | JS | ReactJS | THREE.js | Echo | Gin | Docker | Linux | Git | GitHub | SQL | AWS | Postman | GitHub actions | Websockets | JWT | go-routines | channels