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Parth Lawania

Software Engineer

Portfolio: parthlaw.vercel.app
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SKILLS

Languages	Java, Golang, Javascript, Typescript, Python, C++, C
Tools and Frameworks	ReactJs, NextJs, Angular, NodeJs, Express, Django, Flask, NestJs, Kubernetes, Docker, GIT, RabbitMQ
Databases	PostgreSQL, MySQL, MongoDB, Redis, Snowflake
Platforms	Linux, Amazon Web Services (AWS), Google Cloud Platform (GCP) Firebase, Vercel, Heroku

TECHNICAL EXPERIENCE

Software Developer Intern (Backend) 12 2023 — 03 2024
Peakflo (YC W22) Remote

- Developed **Serverless** APIs leveraging **GCP Cloud Functions** and **API Gateway** for efficient and scalable solutions.
- Implemented **webhooks** for clients, ensuring seamless communication, and configured **VPC** to maintain static IPs, overcoming the dynamic IP challenge of Cloud Functions.
- Engaged in **Microservices**-oriented Backend Development, focusing on modular design for Accounts Receivable and Accounts Payable functionalities, promoting code reusability and maintainability.

Software Developer Intern Aug 2022 — Oct 2022
Blaze AI (YC W22) Hybrid

- Orchestrated the development and deployment of **cloud infrastructure**, **data pipelines**, backend, and frontend systems for a diverse portfolio of projects leveraging cutting-edge technologies. Achieved **40% reduction in infrastructure costs** and accelerated project delivery by 20% through effective cross-functional collaboration.
- Led end-to-end development and launch of "Statistik," a TikTok growth tool and **analytics** product, garnering **over 1000 users** and providing valuable social media trend insights.
- Led the **high-impact project** "Twitter Listening" managing the ingestion and processing (**ETL Pipeline**) of **millions of daily** tweets. Solely established the complete **infrastructure** for the project.
- Accelerated data pipelines with **AWS Step Functions**, slashing **run-time from 1-2 days to 2-2.5 hours**, optimizing infrastructure and reducing infrastructure costs.

Back-End Developer Intern Aug 2021 — Nov 2021
L-Earn App Remote

- Micro-services**-based Backend Development: Designed and built a Micro-services architecture using **Node.js** and **Golang**, achieving an average response time of 50 milliseconds, ensuring fast and efficient data processing.
- Real-time Chat Module: Developed a real-time chat module using **Golang** websockets and **parallel programming**, enabling concurrent handling of 10,000 chat connections with only 1% message loss under high load scenarios.
- Live Session Assignment System: Implemented a dynamic system between **Node.js** REST server and **Golang websocket** server, allowing the assignment of teachers to students for live sessions within 200 milliseconds, ensuring swift access to live assistance.

PROJECTS

Scalable Pub-Sub Chat Application

Gochat

- Implemented a cutting-edge chat application using **React**, **Golang**, and **SQL**.
- Achieved a 50% reduction in message delivery latency through the implementation of **parallel programming** using **Goroutines** in **Golang**, providing users with an instant and seamless real-time chat experience.
- Implemented Pub-Sub architecture using **RabbitMQ**, improving message processing efficiency and enabling seamless message distribution in small to medium-sized chat rooms.

Local Torrent - File Sharing in LAN

Share ++

- Implemented a local torrent application in **Java** (Using **Socket programming**), utilizing **non-blocking I/O** with **Channels** and **Selectors** for resource management and scalability.
- Leveraged **Spring Boot** framework to develop a user-friendly web interface.
- Ensured data integrity and thread safety through careful use of **Mutex** for synchronized access to shared resources.
- Used **LinkedBlockingQueue** for communication between **http server** thread and the **socket server** thread

EDUCATION

Dual Degree (BTech in Information Technology), *Indian Institute Of Information Technology and Management Gwalior* 2019-2024

ACTIVITIES

Web Operations : IEEE Students Branch IIITM Gwalior	2020-Present
Manchanta IIITM, Gwalior, Technical Team Member	2019-Present
ICM ICPC Regionals 2019 Volunteer	Dec 2020