Rajeev Tripathi

 +91 8467908357   tripathirajeev9801@gmail.com   tripathiraj9801   tripathiraj9801

Technical Skills

Languages: C/C++, Typescript (React, Nodejs, Nextjs), SQL
Cloud Computing: AWS (EKS, EC2, S3), Docker, Kubernetes
Tools and Databases: Jenkins, MongoDB, Redis,PostgreSQL

Experience

Nokia   August 2023 – Present
Software Engineering Intern   *Bangalore, India*
- Developed and tested back-end systems of CNUM feature which is essential for automatically integrating network elements to the integration plan for circle owners of 5G impacting around **50 million** users in India and Italy.
- Developed and implemented a robust multipart upload feature utilizing **AWS S3 bucket**, significantly enhancing file transfer efficiency and reliability, reducing upload times by **7%** and ensuring seamless handling of large files.
- Introduced framework for testing the application using Jest by automating the license upload for lab, saving **20-25%** hardware resources efforts by creating a **bash** script to run a clone repository on the Oracle VM.
- Accomplished **25%** improvement in API response time by migrating a script from **Jruby** to **Golang** and **13%** lower server load achieved and remove duplicate search by implementing a Binary Search Tree.
- Engineered authentication on a micro-service architecture using PassportJS and JSON Web Tokens (JWT) in Typescript estimated to reduce 73% unauthorized users and increase revenue by 50k$ per year.

Sneakily: Store for Sneakerhead   August 2022 – July 2023
Full Stack Engineer   *Remote, United Kingdom*
- Engineered a full stack application using **NodeJS** in **Typescript** along with **PostgreSQL** for an e-commerce platform for shoe reselling and buying for sneakerheads that onboarded 30 orders/week in initial operations.
- Integrated a payment gateway using **PayPal**, storing the temporary payment order details, in **Redis** using a hash function, along with a Credit Card Payment Processing Platform on **AWS Elastic Kubernetes Service**.
- Architected a visually captivating, animated 3D shoe frontend using **Three.js**, and **Tailwind CSS**, achieving **3 s** load and **1 s** reload times to improve the sales from an average of 30 orders/week to 100 orders/week.

Google Developer Student Club   August 2021 – July 2023
Technical Member   *Chandigarh, India*
- Facilitated events for students' interest in core computer science concepts and increased participation from **120** to **256** members around **110%** increase and taught 20 students about core computer concepts.
- Scaled a notification mobile application for mess entry and class notifications to reduce food wastage by **23%**.

Projects

Decentralised Blogging Platform | *Solidity, IFPS, NextJs, Redis, Smart Contracts* | Live Link | Source Code
- Devised a blogging platform on smart contracts using **Solidity** on **Ethereum** with **100%** code coverage.
- Integrated **InterPlanetary File System** for decentralized storage of blog content reducing storage by **30%**.
- Improved UX by server side rendering, client-routing using **Next.js**, resulting in a **10%** lower load time.

Real Time Chat Application | *Nodejs, MongoDB, Docker, Kubernetes, Redis, AWS EKS* | Live Link | Source Code
- Implemented horizontally scalable chat app with **50%** reduction in latency by optimizing **Nginx** for **Socket**.
- Reduced database queries by **70%** resulting in a **40%** improvement by distributing caching layer using **Redis**.
- Architected application infrastructure on **Kubernetes**, orchestrating **Docker** containers to **20%** cost reduction.

Education

Chandigarh University   May 2024
Bachelor of Engineering in Computer Science (GPA: 7.78/ 10.0)   *Chandigarh, India*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Operating Systems, Databases, Computer Networks
- Research paper accepted in ICBAR 24 on the Efficiency of Distributed systems using NodeJS and MongoDB