ABHIGYAN PAL

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Education

Manipal University Jaipur Jul 2019 – May 2023
Bachelor of Technology in Computer & Communication Engineering

Technical Skills

Languages – C | C++ | JavaScript | TypeScript | SQL | Shell Scripting

Frameworks & Libraries – Node.js | React.js | Express.js

Technologies – Linux | Git | Docker | Grafana | Kafka | Redis | RabbitMQ

Experience

Product Development Engineer, *Comviva Technologies Ltd.* Feb 2023 – May 2024

- Engineered MCA (product) notification system handling 20,000 TPS, implementing SMPP protocol
- Integrated MCA-N with Solace Messaging Queue, reducing message processing time from 150ms to 90ms
- Led MCI Iran pre/UAT sessions, incorporating client feedback and achieving client satisfaction
- Deployed customized MCA-N (MCI Iran) with 6 additional client-requested features
- Optimized load balancer algorithms achieving 99.8% system availability
- Redesigned circle-wise KPI monitoring (RJIO), reducing network latency in super-core regions
- Implemented Grafana monitoring with custom KPI dashboards
- Designed log-server architecture reducing storage from 25MB to 9MB, enabling faster log retrieval
- Led Oracle SQL to MySQL migration, improving query response with automated backups

Full Stack Intern, *NuToM* Jun 2022 – Aug 2022

- Developed and implemented the user authentication module using React and Express (Node.js)
- Contributed to the design and implementation of key UI components using Tailwind CSS
- Integrated a third-party API for payment processing using Python and Flask

Projects

Distributed Ecom, *Distributed E-Commerce Platform* Mar 2025 – Apr 2025

- Developed a scalable e-commerce microservices architecture using React, Express and Redis
- Features: Enabled users to create accounts, browse products and place orders in real-time
- Implemented RabbitMQ message queues for asynchronous communication between services
- Containerized using Docker for deployment across environments
- Resources: ⌨ Source

GoCab, *Ride Sharing Application* Feb 2022 – May 2022

- Engineered a carpooling solution that streamlined campus commutes
- Features: Connected students or faculty travelling along similar routes with dynamic timing options
- Built a responsive and mobile-friendly app using React.js and MongoDB for data persistence
- Resources: ⌨ Source | 🖥 Slides

SellitOff, *E-Commerce Platform* Oct 2021 – Dec 2021

- Developed a full-stack MERN e-commerce platform to support small businesses
- Features: Enabled users to create dynamic image carousels, brand profiles and customizable pricing
- Resources: ⌨ Source