KUNAL CHANDRA

+91 6392029677 | kunal.chandra1900@gmail.com | <u>GitHub</u> | <u>LinkedIn</u> | <u>LeetCode</u>

WORK EXPERIENCE :

Faclon Labs   Backend Developer | December 2023 - Present
- Worked with time series databases, data storage and analysis. Delved into load balancing, working in distributing workloads across servers for enhanced scalability and reliability, fine-tuned applications to ensure robustness, stability, and security.
- Worked with message queuing systems, utilizing RabbitMQ for asynchronous communication.

Havells India   Software Developer Intern | January 2023 - June 2023 | <u>LINK</u>
- Developed and maintained 10+ microservices for the HavellsSync application, enabling seamless control of IoT devices; with a 40% reduction in response time, 25% increase in user engagement and a 15% boost in revenue.
- Enhanced IOS push notification service limits by analyzing and developing the backend using **SocketIO** based service for real-time device status updates, utilizing **Redis** cache, which increased limit from 3 per hr to 10/hr
- Automated infrastructure creation using **Terraform** including **Azure Virtual Machines**, Load Balancers, Virtual Networks, storage accounts, and Application gateways, achieving a remarkable 90% reduction in time.
- Containerized micro-services using **Docker** and used Azure Kubernetes Service for deployment.
- Worked on optimizing the MongoDB database and reduced the overall cost by up to 20%.

Freelance Projects   FullStack Software Developer | July 2023 - Present
- Developed and launched a highly efficient logbook website for a thriving snooker club, streamlining sales, expense tracking, and bill calculations, effectively managing an average of 1000+ customers per month and achieving a monthly sales revenue of 3 lakhs. <u>LINK</u>
- Created a website integrating OpenAI API for interview questions, with PayPal payment, PDF creation, and email notification features. Implemented admin/user dashboards, Google/Facebook/local authentication (Passport & JWT), MySQL for the database, and EJS for dynamic rendering. Deployed on Render, reducing runtime from 8+ to 1.5-2 minutes.
- Created a responsive Paying Guest website using **React.Js** for a business client, featuring a contact form and location map for enhanced user interaction. <u>LINK</u>

EDUCATION :

2019-2023 Vellore Institute of Technology   CGPA: 8.88
Bachelor of Technology - Computer Science and Engineering

2018-2019 Seth M.R. Jaipuria   Percentage: 85%
Computer Science, Physics, Mathematics, Chemistry

PROJECTS :

FriendHub   **NodeJs, JavaScript, Express.js, MongoDB, Redis, Docker, JWT** | <u>Project Link</u>
- Developed a Facebook like robust backend system, wherein users register with a unique username and email.
- User can make updates to profile details such as email, name and password. User can also perform CRUD operations on posts, comment on posts and send/accept/reject friend requests. Implemented caching which reduced the response time by 60%.
- Used MongoDB transactions to uphold the **ACID** behaviour of the database and also handled concurrency.

We-Connect   **Socket.io, Javascript, MongoDB, Google Auth, NodeJS Nodemailer** | <u>Project Link</u>
- Developed a real-time peer-to-peer video calling and group chatting web application using Web Sockets and WebRTC.
- Implemented features such as group chats, hand raise, video call meetings, scheduling meetings, and chat saving for comprehensive communication.

Secure Diary   **NodeJs, Express, API, NoSQL, Docker, Nodemailer** | <u>Project Link</u>
- Developed a robust application for encyption and decrpytion of texts and images using AES256 algorithm.
- Implemented authentication using JWT tokens and cookies for enhanced security. Ensured clean code with a production-level project structure, including specific route handlers.

OpenBoard   **HTML, CSS, JavaScript , Socket.io , Canvas API** | <u>Project Link</u>
- Developed a drawing application with erase, undo, and redo functionalities using Stack data structure, along with features like live sharing, image insertion, and sticky notes.
- The application uses Canvas API and Socket.IO and also allows users to download drawings in PNG format.

SKILLS :

- Technical Skills & Programming languages: Problem Solving, JavaScript, Core Java, MongoDB , ExpressJS, CSS , Mongoose , EJS ,Linux , Docker, REST API, Git Version Control, GitHub, GraphQL, GitLab, Docker, CI/CD, Azure and AWS cloud, Figma, Terraform, Software Design, Agile software development, Technical documentation.
- Tools and Frameworks: React JS , Node JS , Bootstrap , Redux.
- Subject Expertise: Data Structures & Algorithms, Object Oriented Programming, Operating Systems, Database Management Systems, Computer Networking.

ACHIEVEMENTS :

- Secured 1138th rank in Google Kickstart Coding season 2021.
- Secured 456th rank in ScalerX 2.0 Coding contest across India. | LINK
- Node.js Essential Training Course | LINK
- Databases for Node.js Developers | LINK

RESPONSIBILITIES:

- Web Development Core Team Member: Bit By Bit Club - Coding Blocks - Planned the architecture and built the official website of the coding club, collaborating and communicating with team members mentored juniors and promoted active learning through webinars, workshops.