AMAN BILEY
Software Engineer

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Software Engineer with 3+ years of experience specializing in full-stack MERN development. Skilled in building scalable web applications with seamless user interfaces and efficient server-side performance. Passionate about learning new technologies and delivering innovative solutions.

⚙ Skills

Programming :   DSA, OOPS, PYTHON, JAVASCRIPT, TYPESCRIPT
Front-End :   HTML, CSS, JAVASCRIPT, JQUERY, AJAX, AXIOS, BOOTSTRAP, REACTJS, REDUX.
Database :   MYSQL,MONGODB, MS-SQL,PostgreSQL
Back-End :   NODE.JS, EXPRESS.JS, NESTJS,SOCKET PROGRAMMING, NPM, GIS
Tools and Cloud :   GIT, SVN, POSTMAN, WIRESHARK, GEOSERVER, ZABBIX, AWS

💼 Work Experience

CoreEl Technologies Pvt. Ltd
Software Engineer

July'2022 – Present
Bangalore

> Developed a **React.js** and **Node.js**-based **GIS web application** for **ISRO-ISTRAC**, utilizing **OpenStreetMap**, **GeoServer**, **TLE satellite data** ,and **MySQL** for backend data management enabling **100% real-time beacon tracking** and **improved geospatial data accuracy by 30%**.

> Optimized rendering performance with **React.memo, useCallback, and useMemo**, reducing unnecessary re-renders and improving UI responsiveness by **40%**.

> Built an interactive **map component** with **OpenLayers** and **GeoServer**, enhancing geospatial visualization accuracy by **35%**.

> Implemented global state management using **Redux Toolkit** and **Context API**, reducing API calls by **20%**.

> Improved real-time data processing by integrating **WebSockets** and **React Query**, reducing update latency by **25%**.

> Designed and implemented **MySQL database schemas** using **Sequelize ORM**, ensuring relational consistency, optimized indexing, and scalable entity relationships.

> Developed a backend controller for **real-time operations** utilizing **Node-Schedule** and socket programming, ensuring **100% uptime** for critical operations.

> Integrated **Python** modules for advanced mathematical and scientific computation using **NumPy**, **SciPy**, and **Matplotlib** within the MERN architecture.

> Created efficient **data pipelines** with a **child process** to facilitate seamless communication between the Node.js application and Python scripts, enabling **real-time data exchange** with a **20% boost** in processing speed.

» Developed an internal **MERN stack** application for **ISRO**, improving operational efficiency by **40%**.

> Led **full-stack development**, managing both front-end and back-end tasks using **React.js** for the UI, **Node.js** and **Express.js** for server-side logic, and **MongoDB**, reducing development time by **30%**.

> Designed a scalable **React component library**, improving code reusability and UI consistency across the application.

> Implemented real-time **data streaming** using **React + WebSockets**, optimizing communication between the frontend and backend.

> Developed a **real-time event scheduler** using **Node-Schedule** and **React hooks**, ensuring **100% uptime** for critical operations.

> Integrated **React Router** for efficient client-side navigation, improving workflow efficiency by **25%**.

> **Implemented** real-time **TCP/UDP communication** between the web application and the data acquisition system, optimizing data transfer processes by **25%**, using **socket programming** with **net** and **dgram** modules.

> Led the optimization of large datasets using **virtualized lists** (React Window), improving load times for complex tables by **30%**.

> Implemented **custom hooks** for reusable logic in API handling, form validation, and authentication.

> Contributed to **code reviews and performance audits**, ensuring React best practices and maintainability.

Autuskey Technologies Pvt. Ltd
Frontend Engineer (React.js)

April'2022 – June'2022
Pune

» Developed and optimized **React.js** applications for an E-commerce platform.

> Built reusable **React components** with **TypeScript**, improving UI consistency and reducing redundancy.

> Integrated **Next.js** for server-side rendering (SSR) to enhance SEO and page load speed.

> Implemented **email authentication and authorization** using **SendGrid**, improving security and user verification.

> Integrated **Razorpay payment gateway** for secure transactions with optimized checkout flows.

> Collaborated on bug fixes and UI enhancements, improving performance and user experience.

Robotronix Private India Limited   May'2019 – August'2019
Intern - Web Developer   *Indore*
» Developed a real-time **dashboard UI** using **React.js** and **Chart.js** for IoT data visualization.
› Implemented **state management** with **Context API** for efficient data handling.
› Optimized **API data fetching** with **React Query**, reducing API response time by **30%**.
› Collaborated on bug fixes and UI enhancements, improving performance and user experience.

🎓 Education

Shri Govindram Seksaria Institute of Technology and Science   2016 – 2020
Bachelor of Engineering in Electronics and Telecommunication   *Indore*

🏆 Milestones

QUALIFIED GATE-EC   2020 and 2021
QUALIFIED JEE ADVANCED   2016
SECURED CITY RANK 1 NATIONAL SCIENCE OLYMPIAD   2012