Akshat Khosya

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Education

Indian Institute of Information Technology Una (IIITU)   Dec. 2020 - May 2024
B.Tech in Computer Science Engineering | Link to all courses   *CGPA: 7.82/10*
Relevant Courses: Data Structures and Algorithms (C++) , Operating Systems, OOP (C++), Computer Networks,
              DBMS (SQL), Software Engineering, Mobile Applications Development (React Native)

Experience

Mobile Premier League   Apr. 2024 - Present
Software Development Engineer-1   *Strapi, TypeScript, Nextjs, Postman, React, PostgreSQL*

- Engineered scalable **Strapi middleware** to enable dynamic and customizable layouts for a **Next.js** website, automating environment migration processes and enhancing team productivity through data synchronization.
- Optimized DOM content delivery using **React Server Components**, reducing page load times by **78.8%** (from 260ms to 55ms), significantly improving website performance and user retention.
- Designed and implemented **custom themes and layouts** using **Tailwind CSS**, boosting APK download clicks from **46% to 69%** by delivering an engaging and user-friendly interface.

Wendor Innovations Private Limited   Jan. 2023 - Jul. 2023
Software Engineering Intern   *PostgreSQL, TypeScript, Node.js React, Raspberry Pi, Python, IoT, Docker*

- Integrated **Ezetap API** with payment services, revolutionizing vending machine transactions, increasing revenue by **20%** within the first quarter, and offering customers a secure payment method.
- Engineered a **Raspberry Pi**-based cash/coin change machine service, ensuring seamless serial port communication with **95% accuracy**, streamlining cashless transactions.
- Automated updates on **Raspberry Pi** using **Node.js Service Mode**, reducing manual update times by **80%** and ensuring consistent deployment of critical software upgrades.

Projects

Check In/Out System Mobile Application   Nov. 2022
Gate Entrance approval application   *React Native, Node.js, Express.js, Postman, MySQL*

- Orchestrated the seamless design and implementation of an innovative mobile application, integrating QR code scanning functionality, integrating **QR code** scanning functionality, reduced **75%** time in manual entry.
- Integrated QR code scanning functionality to streamline the entry and exit process, enhancing **user experience** and **reducing manual data** entry errors.
- **Enhanced** performance by **memorizing** state variables, cutting down query & API **latency** using **cache**.

Alumni Portal SRM   Jan. 2022
Alumni portal to create post and represent them on a feed   *React, AWS, Express.js, Postman, MongoDB*

- Designed and developed a web application to foster connections among a community of over **300 +** SRM alumni.
- **Architected** and deployed AWS, serving as a **scalable** back-end solution, resulting in a **50%** reduction in server costs.
- Enhanced security measures significantly by implementing **ID verification**, resulting in a 90% reduction in verification time.

Technical Skills

Languages: TypeScript, C, C++, SQL, HTML, JavaScript, CSS

Frameworks: Node.js, Express.js, React, React Native, Next.js, NestJS, JQuery

Technologies & Tools: Git, Linux, Docker, CI/CD, Github, Postman, MongoDB, Redis, MQTT, AWS

Achievements and Co-Curricular Activities

- Participated in 2 day long development hackathon Pro-go-thon and developed a Student Management System Prototype,which used QR code based validation and integration of Deep Learning.
- Mentored a team of 4 in SKILLABHYUDAYA (Web Dev) Event by Force Society (Finalist).
- Solved 400+ problems Leetcode, CodeChef & GeeksforGeeks, Max Rating - 1759 (3 Star) on CodeChef, Best Global rank- 165.