Ayush Kumar Singh

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EDUCATION

Indraprastha Institute of Information Technology, Delhi, India — August 2020 - May 2024
Bachelor's of Technology - Computer Science and Engineering — GPA - 7/10

WORK EXPERIENCE

GEP Worldwide — Jan 2024 – Present
Software Developer | React Native, Redux, Mobile Development — Mumbai, India

- Spearheaded the integration of the **Field Services** app into the **Smart** application, enhancing functionality and streamlining workflows.
- Revamping the **Smart app's architecture**, transitioning from legacy systems to a scalable, high-performance structure.
- Overseeing and maintaining the **Inventory app**, managing bug fixes and ensuring stable performance until integration into the Smart platform.

GEP Worldwide [Certificate] — May 2023 – July 2023
Software Engineer Intern | C#, Excel Automation, MySQL — Navi Mumbai, India

- Developed a console application to automate bulk data uploads from Excel to **MySQL**, reducing manual effort and improving data accuracy.
- Implemented robust **data validation pipelines**, enhancing operational efficiency and reliability.
- Deployed the application to production after thorough testing in **DEV** and **UAT** environments.

IIITD - Ph.D. Management Portal [Github] [Video Link] — Jul 2023 – Dec 2023
Web Developer | ReactJS, Django, TailwindCSS, SQL — Delhi, India

- Designed and deployed the **Ph.D. Management Portal**, automating administrative tasks such as student database management, stipend tracking, and exam duty allotment.
- Engineered the **Exam Invigilation Algorithm**, operational since March 2023, successfully managing **7+ exam seasons**.

Networks Lab, IIITD (Ministry of Rural Development) [Github] — Jan 2023 – May 2023
Researcher | Appium, Java, Charles Proxy, MITM Proxy — Delhi, India

- Automated testing of the **LokOS mobile application** using **Appium**, identifying performance bottlenecks under varying network conditions.
- Proposed solutions like **data compression, resumable uploads, and network-based fragmentation** to improve data upload reliability.

PROJECTS

Distributed and Scalable: URL Shortener [Github] — July 2024
Personal Project | React.js, Express.js, MongoDB (Azure), Apache ZooKeeper, Nginx, Docker

- Designed and implemented a **distributed URL shortener** with high availability, fault tolerance, and optimized performance using **Docker** and **NGINX**.
- Leveraged **Apache ZooKeeper** for efficient counter management, enabling robust scalability across distributed systems.

Personal Portfolio Website [Github] [View Website] — Nov 2024
Personal Project | ReactJS, TailwindCSS, Vite, GitHub Pages

- Designed and developed a responsive and interactive **portfolio website** to showcase my skills, projects, and professional achievements.
- Deployed the website on **GitHub Pages**, ensuring seamless accessibility and efficient hosting for live demonstrations.

OTHER PROJECTS

- Face-ID Auth Website: Developed using FaceNet model with Keras, enabling biometric login and registration.
- 3D-Printer VR Model: Integrated eye-tracking to evaluate user behavior in VR environments for CTML research.
- Jira Agent: Developed an AI Agent to assist developers with query resolutions by analyzing historical JIRA data.

CERTIFICATION AND ACHIEVEMENTS

- Certified in Azure Fundamentals [Certificate]
- Secured Runner-up in GEP Techathon (Dec 2024) for the JIRA AI Agent project.
- Leetcode Rating: 1655 [Profile]
- Secured AIR 1421 in JEE Mains (2020)
- Secured AIR 6 in Indian Institute of Aircraft Engineering (2019)