Devansh Vashishat

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EDUCATION

Thapar Institute of Engineering and Technology   Patiala, Punjab
Bachelor of Technology in Computer Science and Engineering   *Aug. 2023 – June 2027*

EXPERIENCE

Backend Developer   Sept. 2024 – Present
Autonomous Robotics Lab, TIET   *Patiala, Punjab*
- Designed and deployed a robust backend architecture for the Robotics Lab headed by Dr Sachin Kansal to optimize performance, scalability, and reliability.
- Established and maintained CI/CD pipelines, automating deployments for efficient, fault-tolerant DevOps workflows.
- Implemented secure admin functionalities, enabling efficient content and user management.
- Collaborated with frontend team for seamless integration and improved user experience.

Technical Team member   Oct. 2024 – Present
Microsoft Learn Student Chapter   *Derabassi, Punjab*
- Developed and enhanced backend systems for multiple event-based websites, focusing on creating secure and scalable architectures.
- Implemented authentication and security features to ensure safe and smooth user access and data protection.
- Optimized user experience by integrating seamless backend functionalities and collaborating with frontend teams to improve performance and interactivity.

Technical Team Member   Sept. 2023 – Oct. 2024
BackSlash Computing Society   *Derabassi, Punjab*
- developed the home/landing page for the BCS team using React, creating an engaging and dynamic user interface.

- Self-taught React while working on the project, leveraging online resources to gain a solid foundation in frontend development in a limited timeframe.
- Overcame challenges related to limited experience in frontend technologies, dedicating hours to research and hands-on learning to meet project requirements effectively.

Backend Developer   June 2020 – Present
Shubh Gadhi Pvt. Ltd.   *Patiala, Punjab*
- Collaborated with cross-functional teams in the end-to-end development of an ecommerce platform, contributing to architectural decisions and performance optimizations for enhanced scalability and reliability.
- Supported the management of development, deployment, and ongoing maintenance to ensure platform infrastructure met high standards of reliability, scalability, and security.
- Integrated Cloudflare CDN into the infrastructure, enhancing website performance, security, and scalability while contributing to DevOps initiatives and optimizing deployment efficiency.

PROJECTS

Mystixia - Cryptic Hunt Game Website | *Express.js, MongoDB, EJS, JWT*   2024
- Designed and implemented a dynamic backend, featuring answer validation, progressive question flow, and an automated blocking system with dare-based unblocking to maintain game integrity.
- Built an advanced admin dashboard for real-time management of users and teams, incorporating activity tracking, performance analytics, and live operational oversight for efficient gameplay management.

Desafio - Real time event manager and tracker | *Express.js, MongoDB, JWT, Digital Ocean*   2024
- Designed and implemented a secure authentication system, ensuring safe user access and data integrity.
- Developed and deployed advanced security measures, including encryption and session management, to protect sensitive participant data.

- Balanced performance with robust security features, optimizing the user experience while safeguarding against vulnerabilities.
- Deployed the entire application on DigitalOcean, leveraging its infrastructure to guarantee high availability and performance under heavy traffic during the event.

Resourcify - Enterprise System for the Indian Army | *Django, PostgreSQL, Vue.js, Docker, AWS*
(Patiala Cantonment)   2024
- Engineered robust backend services for a custom ERP system tailored to the operational needs of a military cantonment, enhancing efficiency in manpower management, task allocation, and resource tracking.
- Optimized data handling and integration processes to ensure seamless communication between various modules, supporting scalability and long-term system maintainability.
- Partnered closely with a cross-functional team of four, aligning backend functionality with frontend requirements and user needs to achieve smooth system integration and high performance.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, Typescript
Frameworks: React.js, Django, Flask, Express.js, TensorFlow, React Native
Tools: Docker, Kubernetes, Kafka, Amazon Web Services, Digital Ocean
Databases:MySQL, PostgreSQL, MongoDB

Achievements

- Finalist in Smart India Hackathon (SIH 2024) a total of 126 teams participated – Finals Pending.