Utkarsh Mishra

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EDUCATION

Pranveer Singh Institute of Technology

Bachelor of Technology - Computer Science and Engineering *Nov 2021 - Present*

EXPERIENCE

Student Research Associate July 2023 - Present

Indian Institute of Technology *Kanpur, Uttar Pradesh*

- **Contributed to Virtual Labs** by **designing**, **developing**, **simulating**, and **testing labs**, ensuring **100% functionality** before hosting.
- **Engineered** the **front-end** of an **Employee Management System** for **100+ Virtual Labs employees and interns** using **React, Bootstrap, and TypeScript**.

Co-Chairperson: SIGHT Affinity Group September 2022 – January, 2024

IEEE PSIT Student Branch *Kanpur, Uttar Pradesh*

- **Managed** events, webinars, and task execution to ensure **successful outcomes**.
- **Coordinated** with group members for the **smooth functioning** of the society.

PROJECTS

Employee Management System | React, TypeScript, BootStrap, REST APIs, JWT Currently Working

- Developed a **full-stack web application** using **React with TypeScript** for the **frontend** and **Node.js** for the **backend**, with **REST APIs enabling efficient communication** between the two .
- Designed and implemented an **ERP system** for **employees and interns** under the **Virtual Labs project** at **the Indian Institute of Technology, Kanpur**, serving **100+ users**.
- Created a **user-friendly interface** with features like **attendance tracking**, **leave management**, **task assignment**, and **real-time updates**, **streamlining workflows** and **reducing administrative overhead by 30%**.
- Improved overall project efficiency, **saving 40%** of time on repetitive processes, and **achieved 90% adoption** among employees.
- **Website URL**

Readers Paradise | React, Spring Boot, MySQL, JWT, OAuth2, SSL/TLS August 2024

- **Full-Stack Implementation**: Developed an online bookstore web application using **Spring Boot for the backend** and **React TypeScript for the frontend**, **supporting 1,000+ concurrent users**.
- **User-friendly Interface**: Designed an interactive UI with features like **purchase history**, **late fees**, and **payment processing**, **reducing navigation time by 25%.**
- **Integrated Stripe Payment Gateway**: Implemented a **secure** and **user-friendly payment system**, achieving a **98% successful** transaction rate.
- **Created REST APIs**: Ensured **seamless data communication** between frontend and backend, **improving response times by 40%** for a smoother user experience.
- **Link to Repository**

BudgetKart | Spring Boot, Angular, JWT, OAUTH2, OPENID CONNECT, SSL/TLS March 2024

- **Full-Stack Architecture**: Built an **e-commerce web application** using **Spring Boot** for the **backend** and **Angular** for the **frontend**, handling 500+ users.
- Established **secure** and **interactive** payment processing using **Stripe**, leading to **seamless transactions** for over **500 users** while maintaining a **high-level security standard** that enhanced **overall trustworthiness** of the application.
- **Security Implementations**: Enabled **SSL** encryption to secure routes and data, **reducing potential vulnerabilities by 70%**.
- **Link to Repository**

Other Projects

Technical Skills

Programming Languages: Java, C, C#
Developer Tools: Git, Docker, Kubernetes, Postman
Web Technologies: HTML, CSS, TypeScript, JavaScript, React, Angular, BootStrap, Material-UI, Tailwind CSS
Domains: Data Structures and Algorithms, Database Management, Full Stack Development
Databases: SQL, H2, MongoDB
Soft Skills: Leadership, Task Prioritization, Analytical Brainstorming, Versatility, Communication

Certifications

Full Stack: Angular and Java Spring Boot E-Commerce Website from **Udemy**
Full Stack: React and Java Spring Boot - The Developer Guide from **Udemy**
Data Structures and Algorithms using Python - Part 1 from **Infosys Springboard**
Programming Fundamentals using Python - Part 1 from **Infosys Springboard**
Programming Fundamentals using Python - Part 2 from **Infosys Springboard**

Certifications Link