







KUSHAGRA SINGHAL

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TECHNICAL SKILLS

Languages: Python, C++, HTML/CSS, JavaScript, Typescript

Skills: Express.js, MongoDB, MySQL, Redis, .Net, Spring Boot, REST API, WebRTC, Socket.io, TDD, DevOps, Computer Networking, Agile Environment Development.

Tools: Docker, Kubernetes, Amazon Web Services, Postman, Github, Apache Benchmark, VMware, Linux

Certifications: Python Essentials, JavaScript Basics, CCNA:SRWE, CCNA:ENSA, CyberSecurity Essentials, AWS ML Foundations, Python Programming (University of Alberta)

WORK EXPERIENCE

Cognizant

Mar 2025 – Present

Gen Next Intern

Chennai

- Developed and deployed a scalable **Library Management System** using **.NET** for the backend and **Angular** for the frontend.
- Implemented RESTful APIs and integrated secure user authentication, resulting in a **35% improvement in system reliability**.
- Optimized Angular components for performance, reducing page load times by **40%**.

LG Electronics

Jun 2023 – Jul 2023

Software Engineer Intern

Noida, Uttar Pradesh

- Researched on cutting-edge innovative technologies like **Software-Defined Networking (SDN)**, **Kubernetes (K8s)**, and **IoT** integration in devices such as TVs, Refrigerators, and Soundbars.
- Improved team efficiency** through the implementation of a method to track daily test result reports using Express.js, demonstrating a commitment to pacing the project workflow effectively.

Script

Mar 2023 – May 2023

Web Developer Intern

Remote

- Created interactive elements within an educational web app utilizing modern technologies like **HTML5**, **CSS3 animations**, achieving a smoother user journey that reduced bounce rates by approximately 3 seconds per visit. This was crucial in addressing user customer engagement metrics.
- Streamlined modifications and task assignments using GitLab, utilized tools like **Postman** to verify the functionality of every website element which led to identifying more than 10-20 fixes in the website, enabling a more predictable development timeline.

PROJECTS

Investo Glow | *Vite JS, Typescript, Tailwind CSS (Shadcn), Agno AI, Groq, Render, Docker*

- The Investo Glow provides investment insights by summarizing recent market trends. This project exemplifies my ability to chart innovative solutions that elevate user experience in the financial world.
- Developed an AI-powered backend using Groq and multi-agent systems to process user queries with real-time stock data, leveraging web scraping and live data feeds for instant, context-aware responses.
- Implemented efficient portfolio and watchlist management, reducing average query time by 40% through Supabase's real-time subscriptions and optimized SQL indexes.

Virtualpallet.AI | *Express.js, Flask, MongoDB, Postman, Docker, Redis, Socket.io, React*

- Researched and innovated education-based platform with AI functionalities with more than 90% accuracy, supporting live webinars and real-time user interaction using features like live chat.
- Designed and implemented a distributed system integrating multiple services for a seamless user experience.
- Seamlessly integrated all services into a single, user-friendly webpage, showcasing proficiency in full-stack development, distributed system design, and cross-service communication for a unified user experience.

Crizbuzz | *Typescript, MongoDB, Redis, Docker, React*

- Designed and deployed a scalable backend using Typescript and MongoDB, efficiently handling concurrent user requests while adhering to RESTful principles for seamless third-party service integration.
- Integrated Docker for containerization, ensuring seamless deployment and environment consistency with fault tolerance.
- Implemented distributed storage strategies using MongoDB and Redis, improving data availability and lowering latency under high concurrency.

EDUCATION

SRM University

Sep 2021 – Present

Bachelor of Technology in Computer Science w/s in Computer Networking (8.5 CGPA)

Chennai, Tamil Nadu

Achievements

HackTheBox SRMIST: Organized and managed events with over 500+ participants. Helped fellow team members by giving actionable insights in challenging situations, which drove improvements across all group projects.

ACM SRMIST: Designed and maintained the club's website, focusing on creating a **user-friendly interface and compelling content**.

Hackathons/Workshop: DS Hack 2.0(Top 8), NSCC Hackathon(Top 4), SRM Ideathon(Top 3), Code With Node, Sec-ci(Organizer)

Chess: FIDE Rapid Rating 1432, Runner-up inter-college tournament, Lead my team in State and CBSE level tournaments.