

Ahsan Faraz

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Education

FAST NUCES - BSc. Software Engineering

Aug. 2022-Present

Relevant courses: Programming Fundamentals, Object Oriented Programming, Data Structures, Software Requirements Engineering, Human Computer Interaction, Database Systems, Software design & Architecture, Software Quality Engineering, Operating Systems, DevOps, Applied AI, Software Construction & Development

Superior College Mianwali – FS.c Pre Engineering

Aug. 2022-May. 2022

Personal Projects

1. EduSphere: Education Platform (Next.js, Supabase, React Three Fiber)

- Built platform connecting tutors and students with interactive courses.
- Integrated Supabase for secure authentication and course management.
- Enabled Stripe for seamless payment processing of course enrollments.
- Designed responsive UI with Tailwind CSS and 3D visuals via React Three Fiber.

2. ElevateX (Next.js 15, Sanity, Tailwind CSS)

- Built scalable full-stack app showcasing startup profiles with high performance.
- Leveraged Next.js 15 for Server Components, dynamic routing, and SSR/SSG.
- Integrated Sanity CMS for dynamic content management and updates.
- Optimized SEO and UI with Next.js Metadata and Tailwind CSS.

3. Forever E-Commerce Website (MERN Stack)

- Developed full-stack e-commerce platform using React and Node.js/Express.
- Utilized MongoDB for efficient product, user, and order data management.
- Integrated Stripe for secure payment processing and order transactions.
- Designed responsive, visually appealing UI for seamless user experience.

4. KubeFlow: DevOps Automation Suite (Docker, Kubernetes, GitHub Actions, Jenkins)

- Deployed web application on local Kubernetes cluster using Minikube on Windows.
- Containerized application with Docker and pushed images to Docker Hub.
- Automated CI/CD pipeline with self-hosted GitHub Actions runner on Windows.
- Configured Kubernetes deployment and service YAMLs for scalable operations.
- Streamlined workflows with Jenkins for robust testing and deployment automation.

5. HMS: Software Quality Testing (SonarQube, Jira)

- Developed automated test scripts using AssertJ Swing for room booking and login.
- Managed defect tracking with Jira, logging issues with detailed descriptions.
- Conducted static code analysis using SonarQube to identify vulnerabilities.
- Ensured critical path coverage in automation scripts for robust testing.
- Delivered comprehensive quality assurance for efficient hotel operations.

Certifications

The Complete Web Development Bootcamp 2024 -Udemy

- Completed a comprehensive web development bootcamp, covering front-end and back-end technologies.
- Gained practical skills in HTML, CSS, Bootstrap, JavaScript, JQuery, React.js and other essential tools.

Skills

- **Programming Languages:** C++, Java, JavaScript, Python
- **Computer Science Concepts:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Operating Systems (OS), Databases
- **Front-End:** React.js, Next.js, CSS, Tailwind CSS, Bootstrap, jQuery, Web3Forms, Figma
- **Back-End:** Node.js, Express.js, MongoDB, Postgres, Sanity, Stripe
- **DevOps:** Docker, Kubernetes, Jenkins, Git, GitHub
- **Software Quality:** SonarQube, Jira, Cypress, Jenkins, Postman
- **Soft Skills:** Strong communication, teamwork, problem-solving