

MUHAMMAD AHSAN NADEEM

Software Developer

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Education

COMSATS University Islamabad

Bachelor of Science in Software Engineering

Feb. 2019 – Feb 2023

Islamabad, Pakistan

Experience

DataQ Health

Software Engineer

Dec 2024 – Present

Islamabad, Pakistan

- Collaborated with the OpenNMS community to enhance the "Network Monitoring Portal," leveraging vue.js, Pinia, and feather.js to develop a responsive frontend for real-time network monitoring.
- Integrated OpenNMS's REST API to fetch and visualize device status, performance metrics, and alerts, ensuring seamless data connectivity and user interaction.
- Participated in agile sprints with daily standups to align team efforts, discuss progress, and address blockers, driving iterative improvements to the platform.
- Delivered biweekly sprint demos to stakeholders, showcasing new features, performance enhancements, and test results validated through vitest unit tests.
- Contributed to a scalable architecture by optimizing state management with Pinia and ensuring code reliability, supporting network health monitoring for enterprise use cases.

Tekrowe Digital

Full Stack Developer

July 2023 – Oct 2024

Islamabad, Pakistan

- Developed and maintained front-end applications using React.js, Vue.js, and Tailwind CSS, delivering a responsive and seamless user experience.
- Worked on the backend using Nest.js and MongoDB to build robust and scalable API services for various applications.
- Integrated Slack, Jira, and GitHub into the project Perf AI, an automated performance testing platform that identifies performance issues, test cases, design flaws, and privacy concerns in APIs provided by users as open spec files.
- Automated the process of reporting identified issues directly to Slack, Jira, and GitHub, enhancing team communication and bug tracking efficiency.

Texinity Technologies

Full Stack Intern

June 2022 – Sept 2022

Islamabad, Pakistan

- Collaborated with cross-functional teams to develop the V-Football project, building the frontend with React.js and Ant Design for a sleek and responsive user interface.
- Implemented backend services using Express and MongoDB to ensure data management and seamless interaction between the front-end and server.
- Gained hands-on experience in web scraping using Python and Selenium to automate data extraction from dynamic websites.
- Worked with Git for version control, ensuring efficient collaboration and task assignment among team members.

Technical Skills

Frontend: Vue JS, React JS, Tailwind CSS, FeatherDS (Vue Component Designing Library), HTML, SCSS

Backend: Nest JS, Express, Flask, MongoDB

Languages: Javascript, Python, Java

Testing: Vitest, Jest

Version Control: Git, GitHub

State Management: Pinia, Redux Thunk, Zustand

Projects

Open Network Monitoring System | *VueJS, FeatherDS, Pinia, Vitest, OpenNMS API*

Dec 2024

- Designed and developed a custom web portal for network monitoring, integrating with OpenNMS's REST API to fetch real-time data on device status, performance metrics, and alerts.
- Utilized vue.js for the frontend and feather.js (a Nanthealth vue.js component library) for UI components to create a user-friendly interface.
- Implemented Pinia as a state management library to efficiently handle application state, ensuring seamless data flow between components.

- Implemented features for network topology visualization, device health monitoring, and historical data analysis.
- Wrote unit tests using vitest to ensure the reliability of the application.
- Gained a comprehensive understanding of OpenNMS's network monitoring capabilities and API integration, including how networks are monitored through Meridian.

Crypto Dashboard | *ReactJS, Tailwind CSS, Zustand*

Nov 2024

- Developed a real-time cryptocurrency tracking dashboard (<https://dashboard-iota-six-40.vercel.app/>) using React.js, integrating with the CoinGecko API to fetch live price data and market trends.
- Designed a responsive UI with Tailwind CSS and managed state with Zustand for efficient handling of user preferences and data updates.
- Enabled users to track prices, market capitalization, and watchlists with interactive components for an engaging experience.

Perf AI | *Vue.js, Nest.js, MongoDB, Google Cloud, Tailwind CSS*

Sept 2023

- Developed an automated performance testing platform for APIs, using an open spec file to identify design flaws, security vulnerabilities, performance issues, and test cases through AI modules like Design AI, Privacy AI, Performance AI, and Test AI.
- Built and integrated frontend UI in Vue.js, and implemented API gateways such as Apigee, AWS, Mulesoft, and Kong to enhance flexibility for API management.
- Developed backend and frontend for integrations with Slack, Jira, and GitHub, enabling issues to be automatically posted to these platforms based on the identified flaws.
- Designed and integrated services with multiple API gateways, enabling automated performance testing through various platforms like Apigee, AWS, Mulesoft, and Kong for seamless API performance management.

Apla | *React.js, Tailwind CSS, Redux Thunk, Nest.js, PostgreSQL*

July 2023

- Developed the frontend of Apl'a using React.js and Tailwind CSS, improving the UI/UX of the platform.
- Integrated various APIs into the application to streamline functionality and enhance user interaction.
- Implemented Redux Thunk middleware to manage asynchronous logic and state within the project efficiently.

Tube Lecture Buddy | *React.js, Flask, MongoDB*

Feb 2023

- Developed a system to help users better understand YouTube lecture videos by analyzing and processing content through React.js, Flask (Python), and MongoDB.
- Implemented a feature to detect whether the provided YouTube link corresponds to a lecture and, if so, generated key topics discussed in the video with accurate timestamps.
- Automatically generated organized PPTs and documents containing the audio transcript and detailed lecture content, providing a structured overview of the video.
- Included functionality for translating the audio transcript into seven languages, broadening accessibility to non-native speakers.
- Developed an interest-based search feature and a video clipping tool that allowed users to extract specific video segments based on custom start and end times.