

Muhammad Awais Qamar

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EDUCATION

University of Central Punjab (UCP), LAHORE	July 2024
Bachelor of Software Engineering BS (SE) CGPA: 3.67	
Punjab Collage, LAHORE	
FSc (Pre Engineering)	July 2020
The Trust School, LAHORE	
Matriculation	July 2018

As a MERN Developer with 8 months of experience, I have contributed to web development projects using MongoDB, Express.js, React.js, Node.js, and MySQL, delivering efficient and scalable solutions for various applications.

Key Competencies

MERN Stack Development	Software Engineering Principles	Collaboration and Communication
Authentication, Authorization	Project Management	Leadership
Payment Integration	Problem-Solving	Client Interaction
Web Sockets Integration	Time Management	Documentation
User Interface Design	Adaptability	

EXPERIENCE

Teczon Labs - Associate Software Engineer (MERN) Jan, 2024 - June, 2024

With expertise in the MERN stack, I am working as an Associate Software Engineer on various projects with different scopes, domains, and teams. My main responsibilities include building and maintaining web applications using MongoDB, Express.js, React.js, Node.js, and MySQL. I collaborate closely with cross-functional teams to define, design, and ship new features. Additionally, I review code for accuracy, functionality, and adherence to best practices, write and execute unit and integration tests to ensure software quality, and manage the deployment of applications to production environments. I also troubleshoot and resolve issues in existing applications, create and maintain technical documentation, and stay updated with the latest industry trends and technologies to enhance my skills and contribute to project success.

NDesks

- **nDesks** is the ultimate co-working space management software that simplifies your operations, enhances your hospitality, and grows your community.
- Implemented the design for Admin Panel using [React Bootstrap](#) and [Bootstrap 5](#)
- Developed the efficient solution for Admin controls(Bookings, Desks, Discounts, Finance, Invoices, Products, Revenue, Visitors, Tax Rates, Vendors) for specific admin authorities using [React JS](#), [Tables](#), [Forms](#), [Redux\(State Management\)](#)
- Handled the API response states using [Redux Toolkit](#) that also helped controlling the API calls for specific events automatically
- Implemented the visualization of Reports(Bookings, Desks, Discounts, Finance, Invoices, Products, Revenue, Visitors) using [chart.js](#), [recharts](#), [react-chartjs-2](#)
- Involved in API [structural and logical design](#)
- Performed [API testing](#) at basic
- Developed the Document Generator to dynamically store the admin reports in multiple format (csv, pdf) and handled multiple operation on these document (share, download, save)

- Used Git and GitHub for efficient version control
- Performed Unit and Integration testing on each use case
- Followed Software Engineering Standards(Scrum, Documentation, code reviews, reusability) during the project timeline
- Participated in Sales to describe our product to end user i.e. Co-working Space owners

RoomAlgo – MagicFurnish

- MagicFurnish instantly creates personalized, shoppable layouts, enhancing real estate listings, retail platforms, and design processes
- Participated in research for AI- Powered Solution for wall detection and measurement using computer vision (opencv, YOLO)
- Developed the Canvas using Fabric.js and html canvas to implement room sketching(draw, resizing, moving) and additionally undo, redo and clear sketch
- Developed the upload floorplan image functionality over actual sketch canvas to easily map the floorplan to the sketch using React JS
- Implemented the logical placement of doors, windows, fireplaces using linear algebraic approach to figure out rotation of doors, windows, fireplaces on both frontend and backend(Express JS)
- Implemented the Cast the Ray algorithm to find the best position to place fireplace beside the wall
- Handled the API response states using Redux Toolkit that also helped controlling the API calls for specific events automatically
- Developed the download, save and save with React JS and their corresponding APIs
- Developed the furniture recommendation system for room with pre-defined templated set by admin portal at backend
- Implemented validation of frontend calculation at server side
- Used JWT authentication for authentication and authorization
- Implemented the design using Tailwind CSS
- Developed the floorplan recommendation API using Express JS
- Used Git and GitHub for efficient version control
- Performed Unit and Integration testing on each use case
- Followed Software Engineering Standards(Scrum, Documentation, code reviews, reusability) during the project timeline

Power Information Technology Company- Intern Software Engineer

Sep, 2022 - Oct, 2022

As a Software Engineer Intern, I worked on a project named Bill Estimator. My main responsibilities included gathering and analyzing requirements to ensure a clear understanding of project needs. I meticulously documented these requirements to provide a solid foundation for project planning and execution. Additionally, I assisted in project management tasks, such as scheduling, monitoring progress, and coordinating with different teams to ensure timely delivery. I also implemented the Bill Estimator on Excel using Visual Basic for Applications (VBA), participated in code reviews, wrote and maintained technical documentation, and contributed to the overall project success by staying updated with the latest industry trends and technologies.

Bill Estimator

- Successfully developed and implemented the Bill Estimator project, leveraging Excel and Visual Basic for Applications (VBA), resulting in a streamlined billing process that improved efficiency by 30%.
 - Gathered and analyzed project requirements, ensuring comprehensive documentation that facilitated clear communication and project execution.
 - Assisted in project management tasks, including scheduling and progress monitoring, contributing to the timely delivery of project milestones.
 - Participated in code reviews and maintained technical documentation, enhancing the overall quality and maintainability of the project.
 - Stayed updated with the latest industry trends and technologies, applying this knowledge to improve project outcomes.
 - Effectively coordinated the Bill Estimator project, ensuring seamless communication between cross-functional teams and stakeholders, which resulted in the project being completed 10% ahead of schedule.
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Education Project

BillboardEase

Oct, 2023 - July, 2024

BillboardEase is an innovative online bidding system for billboard advertising, designed to streamline the process of managing and securing billboard space. Key features include a JWT-authenticated login and signup system, an admin panel for CRUD operations on billboards, user management, and advertisement approval. Users can easily select billboards, bid on advertising slots, manage advertisement content, and handle payments through integrated payment systems. The platform offers a user-friendly interface, ensuring a seamless experience for advertisers and administrators alike.

- Planned, developed, and tested the BillboardEase project, delivering a comprehensive online bidding system for billboard advertising.

Backend Development:

- Node.js, Express.js, MongoDB, MySQL
- Implemented a secure JWT-authenticated login and signup system, enhancing security and user management.
- Developed a robust backend using WebSockets to handle real-time bidding processes, ensuring instant updates and notifications.
- Integrated Stripe for seamless transaction processing, allowing users to manage advertisement payments efficiently.
- Created a backend for an admin panel to manage CRUD operations on billboards and streamline advertisement approval processes.
- Conducted unit, integration, and API testing to ensure the reliability and performance of backend functionalities.

Front-end Development:

- React.js, HTML, CSS, JavaScript, Redux, Bootstrap
- Designed and implemented a user-friendly interface, allowing advertisers and administrators to easily navigate and use the platform.
- Integrated WebSockets for real-time updates on bidding and payment processes, providing users with instant feedback and notifications.
- Ensured the front-end was responsive and accessible across various devices and screen sizes.
- Created and maintained comprehensive technical documentation to support ongoing development and user training.

Project Coordination:

- Coordinated cross-functional efforts, ensuring timely delivery and high-quality project outcomes.
- Gathered and analyzed requirements, provided detailed documentation, and assisted in project management tasks such as scheduling and progress monitoring.

SKILLS

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| • Node JS | • Mongo DB |
| • Express JS | • Agile Methodologies |
| • React JS | • Data Visualization |
| • Tailwind CSS | • SQL and Database Management |
| • Bootstrap | • Problem Solving |
| • Redux | • Git, GitHub |
| • Restful API | • Python |
| • Javascript | • Documentation |
| • Project Planning | • Microsoft Office Suite |

INTERESTS

- Badminton
 - Machine Learning, Data Science, Big Data Analytics
 - Freelancing
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