HAMZA IQBAL

SENIOR FRONTEND SOFTWARE ENGINEER

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SUMMARY

Experienced Senior Frontend Engineer with 5 years of experience in JavaScript, React, Typescript specializing in 3D web development using Three.js and Potree. Solid problem-solving skills with a proven ability to create and maintain complex web applications. My energy and experience are always dedicated to building efficient and impactful web applications while ensuring cross-browser compatibility, responsiveness and performance optimization.

EXPERIENCE

May,2024 - PRESENT

Executive Software Engineer @ AERODYNE

- Led the implementation of a Point-Cloud Viewer by integrating Three.js with Potree.
- Successfully utilized Potree 2.0 data version, imported from AWS private storage via pre-signed URLs.
- Enhanced the Potree-core library by integrating pre-signed URLs for secure and efficient data access.
- Enabling seamless visualization of point cloud data and high-resolution 3D models.
- Designed and developed reusable Angular components for 3D interactions and controls, including zooming, panning, rotating, and object selection to enhance user experience.
- Delivered Thermal FLIR tool replica for thermographers.
- Collaborated on the re-architecture of an image gallery, integrating it with a Three.js canvas to improve visualization.
- Optimized the fetch time of gallery elements, significantly improving performance and user experience.
- Employed signals and a centralized store for data access, resulting in a notable reduction of API calls and improved application efficiency.

Oct,2020 - PRESENT

Mid/Senior Frontend Engineer @ SHAPE

Dev Team

- Developed & Refined System for Health & Productivity enhancement in agile environment
- Engineered & maintained Product Features using React, Typescript Redux, scss, bootstrap for various devices with cross browser compatibility
- Setup SignalR module for real-time communication with Server
- Reusable animations scripts via Gsap
- Delivered Product Revamp on a very tight timeline with ambiguous requirements resulting in a successful launch
- Established a robust code review system, resulting in better code quality and a 15% reduction in post-release issues.

EDUCATION

National University of Sciences and Technology (NUST)
BS Software Engineering
2016 - 2020

SKILLS

Javascript	HighCharts
ReactJS	ApexCharts
GatsbyJs	MaterialUI
TypeScript	AntDesign
Redux	Bootstrap
Gsap	ThreeJs
RabbitMQ	Potree
Socket.IO	SASS
Tailwind CSS	LeafletJS
ChakraUI	Headless CMS
NodeJs	MinIo
Express	RabbitMQ
Redis	Docker
WebRTC	Azure DevOps
Webpack	AdobeXD
Netlify	Figma

- Maintain bug rates of around 2% while working on complex codebase.
- Major achievements to Develop demo & admin panel to control & monitor all features of Product.
- Boosted developers experience by 25% through consistent dependency upgrades, and coverage using webpack-bundle-analyzer
- Optimizing the performance of software systems to handle scalable loads of data/user by optimizing rendering counts
- Partnered with Product-Team to allow engineering involvement much earlier into projects, taking a handover approach reducing communication overheads and improved efficiency in delivery
- Product gains attention of Forbes36

Growth Team
- Integrated Gatsby app with Contentful - CMS
- Deliver Corporate website using Gatsby integrated with Contentful via GraphQL Deployed on Azure DevOps CI/CD - www.shapepowered.com
- Optimized website performance by reducing page load time by 30%.
- Achieved website page speed insights score of 90+
- Implemented scalable solutions and interfaces to ensure best user experience across major browsers, including Chrome, Firefox, Safari, and Edge, across 11+ versions

Dec 2021 - Feb 2024

Lead Frontend Engineer @ IQRA LABS

Developing ERP and MVP Products as Lead Frontend Engineer:

CCTV Advanced Automation

- Advanced CCTV surveillance solution provided to PORT Management to generate and detect Violations Rules in PORT Premises.
- System build using React with PaperJs Canvas tool for simulation.
- Implemented Auth module, refresh token and encryption
- Integrated Minio as storage facility
- Implemented interactive features gives 15% increase in user engagement and minimized Layout shift (CLS).
- Work with React, PaperJs (Vector Graphics framework), OSM, LeafletJs, React bootstrap, WebSockets , GSAP, Docker, RTSP streaming
- Manage a team of 2 people
- Responsible for improving processes within the team
- Collaboration with product, design and backend for the requirements of any feature.
- Participate as a scrum master in the meetings.
- Contribute towards code reviews
- Project delivered in 11 months

Port Fabrication Planning

- Simulation Module developed using PaperJs with React and OSM integrated with React by help of LeafletJs.
- Purpose is to simulate Port Area to plan Vessels & Fabrication Space.
- Wrote JS scripts to cover CRUD functions for all Elements on canvas
- Simulation Module for Fabrication and Vessels planning for Port Management System to detect & declare Violations Rules in PORT premises

May 2020 - Sept 2020

Junior Frontend Engineer @ Ingenio

- Worked on several MVP applications achieving pixel perfect design.
- Developed & maintained code for multiple projects primarily using HTML, CSS, Sass, JavaScript, React, Context-API.
- Integrated state management tool Redux and Context-Api
- Created UI based on styled-components
- Rest-API development using Express and MongoDB