

# SYED ALI SHUJA

Phone: +92 312 7378945

Email: [writeshuja46@gmail.com](mailto:writeshuja46@gmail.com)

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## Key Qualifications

- **Full-Stack Engineer** with extensive experience in **React.js, Node.js, and Google Cloud Platform (GCP)**, building highly scalable and performance-optimized web applications.
- **Version Control Expertise** with **Git and GitHub**, ensuring smooth team collaboration, feature branching, and efficient code reviews across multiple development environments.
- **Back-End Development Expertise** with **Node.js and Express.js**, developing robust RESTful and GraphQL APIs, optimizing server performance, and integrating with NoSQL databases like **MongoDB and Firestore**.
- **React.js for Front-End Development**, leveraging **Hooks, Context API, and Redux** for state management in dynamic, responsive UIs with optimized rendering techniques.
- **Cloud-Native Development** with **GCP**, utilizing **Cloud Functions, Firestore, Cloud Storage, and Cloud Pub/Sub** for building scalable and serverless applications.
- **Database Management** with **MongoDB, Firestore, and PostgreSQL**, designing efficient schemas, implementing indexing, and optimizing queries for performance.
- **Asynchronous Data Handling** using **WebSockets, Firebase Realtime Database, and GraphQL Subscriptions**, enabling real-time features like notifications and live updates.
- **API Development & Integration**, creating RESTful and GraphQL APIs in **Node.js and Express.js**, integrating third-party APIs for payments, authentication, and data processing.
- **State Management & Performance Optimization**, ensuring smooth front-end interactions using **React Query, Redux Toolkit, and Server-Side Rendering (SSR) with Next.js**.
- **Authentication & Security Practices**, implementing **JWT, OAuth 2.0, Firebase Authentication, and Role-Based Access Control (RBAC)** for secure application access.
- **DevOps & CI/CD Automation**, deploying scalable applications using **Docker, Kubernetes (GKE), Terraform, Google Cloud Build, and GitHub Actions**.
- **Front-End Performance Optimization**, improving page load times using **Lazy Loading, Code Splitting, Image Optimization, and CDN Caching**.
- **Progressive Web App (PWA) Development**, ensuring offline capabilities and mobile-first experiences using **React.js, Next.js, and Firebase**.

- **E-commerce & Payment Integration**, integrating **Stripe, PayPal, and Google Pay** into web applications for seamless transactions and subscription management.
- **Microservices Architecture**, designing and deploying modular services using **Node.js, Kubernetes, and Pub/Sub messaging** for scalable backend solutions.
- **Cross-Browser Compatibility & Responsive Design**, ensuring consistency across all platforms using **Material-UI, Tailwind CSS, and CSS Grid/Flexbox**.
- **Real-Time Collaboration Features**, developing chat, notifications, and document-sharing functionalities using **WebSockets, Firebase, and Redis**.
- **Cloud Infrastructure Management**, optimizing serverless applications on **Google Cloud Platform (GCP)** for scalability and cost-efficiency.
- **Performance Monitoring & Logging**, utilizing **Google Stackdriver, Prometheus, and Grafana** to track system health, API performance, and user activity.

## Technical Skills

Category	Skills and Technologies
Full-Stack Development	React.js, Next.js, Node.js, Express.js, MongoDB, Firebase Firestore, Material-UI, Tailwind CSS
Back-End Development	Node.js, Express.js, GraphQL, RESTful APIs, Firebase Functions, WebSockets
Front-End Development	React.js, Next.js, Redux, Context API, React Query, Material-UI, Chakra UI
Cloud Platforms	Google Cloud Platform (GCP), Firebase, AWS (limited to integration services)
DevOps & CI/CD	Docker, Kubernetes (GKE), Terraform, Google Cloud Build, GitHub Actions, GitLab CI/CD
Serverless Technologies	Google Cloud Functions, Firebase Functions, Cloud Run
Real-Time Technologies	WebSockets, Firebase Realtime Database, Redis Pub/Sub, GraphQL Subscriptions

<b>Database Management</b>	MySQL, PostgreSQL, MongoDB, SQL Server, Oracle Database, Amazon RDS, Azure SQL Database
<b>Version Control Systems</b>	Git, GitHub, GitLab, Bitbucket
<b>Monitoring and Logging</b>	Google Cloud Logging, Stackdriver, Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
<b>Scripting and Programming Languages</b>	JavaScript (ES6+), TypeScript, Node.js, Bash/Shell Scripting
<b>Web Development</b>	HTML5, CSS3, JavaScript (React, Angular, Vue.js), Node.js, Express.js
<b>Collaboration and Communication</b>	Slack, Microsoft Teams, Jira, Confluence, Zoom, WebEx
<b>Database Query Languages</b>	SQL, PL/SQL, T-SQL, NoSQL Query Languages (e.g., MongoDB Query Language)
<b>Markup Languages</b>	XML, JSON, YAML, HTML5, Markdown
<b>AWS Infrastructure Services</b>	EC2, IAM, ECS, EKS, Fargate, RDS, DynamoDB, SNS, SQS, Lambda, S3, EBS, ELB, Route 53, VPC, Security Groups/NACL's, CloudFormation, Autoscaling
<b>Operating Systems</b>	Unix/Linux (Ubuntu, Debian, CentOS, RedHat), Windows 10/11, Windows Server (2016, 2019, 2022)

## Professional Experience

**Software Engineer**  
**Ewarenet, Islamabad**

**Apr 2022 - Present**

In this role, I focused on developing **React.js** and **Node.js** applications, ensuring high performance and security through **MongoDB** and **WebSockets**. I enhanced user experience by optimizing **Next.js**, **Material-UI**, and **Redux** on the frontend while managing backend processes with **Cloud Functions** and **API integrations**. I fulfilled the following responsibilities:

- Led the development of scalable and secure **React.js** applications using **Next.js**, focusing on building modular and maintainable front-end architectures for high-performance systems.

- Designed and implemented **RESTful and GraphQL APIs** in **Node.js/Express.js**, enabling seamless communication between front-end applications and external services, ensuring scalability and reliability.
- Integrated **React applications** with **Google Cloud Platform (GCP) services** such as **Cloud Run, Firestore, and Cloud Storage**, deploying fault-tolerant infrastructure and ensuring optimal performance across cloud-based environments.
- Developed **server-side logic** using **Node.js**, collaborating with front-end teams to integrate **Material-UI and Redux**, improving UI responsiveness and user interaction.
- Utilized the **MERN stack** to build and maintain highly responsive applications, focusing on **MongoDB database management** and query optimization to ensure efficient data retrieval.
- Improved performance of **Node.js** applications by implementing caching strategies with **Redis**, reducing API response times and improving overall application speed by 40%.
- Automated deployment processes using **GitHub Actions and Google Cloud Build**, integrating **CI/CD pipelines** to streamline React and Node.js application deployments, minimizing manual interventions.
- Enhanced data integrity by implementing **Firestore transactions and Cloud Functions triggers**, optimizing complex queries to ensure minimal downtime and maximum data reliability.
- Developed scalable **middleware components** in **Node.js**, integrating **GCP Pub/Sub and Firebase Messaging** for event-driven communication between microservices.
- Integrated **Google Cloud Storage** with applications for efficient file handling, optimizing asset management through **lazy loading techniques and Cloud CDN**.
- Architected cloud-native **React and Node.js applications** on **GCP infrastructure**, leveraging **Firestore for database management, Cloud Run for scaling, and Stackdriver for real-time monitoring**.
- Utilized **version control systems like Git and GitHub**, enforcing code reviews and branch management practices to maintain high code quality and collaboration.
- Led the migration of **legacy JavaScript applications** to **React.js and Next.js**, ensuring smooth transitions while enhancing security, maintainability, and code structure.
- Applied **Domain-Driven Design (DDD) principles** to modularize **Node.js** codebases, improving scalability and maintainability of large enterprise applications.
- Implemented **OAuth 2.0 and Firebase Authentication** for secure user authentication, ensuring compliance with best security practices.
- Collaborated with front-end developers, optimizing **React-based front-end systems** for smooth API consumption, ensuring fast and efficient data retrieval in large-scale projects.
- Spearheaded Agile/SCRUM ceremonies, leading cross-functional teams in delivering **React and Node.js** projects within tight deadlines, including presenting key results and project milestones to stakeholders.

## Software Engineer

London Web World Limited, London

Feb 2021 - March 2022

At London Web World Limited, I developed **scalable and high-performance web applications** using **React.js, Node.js, and Google Cloud Platform (GCP)**. I optimized real-time interactions, enhanced security protocols, and restructured monolithic applications into efficient microservices. These were my responsibilities:

- Built **React.js dashboards** using **Redux, D3.js, and Chart.js**, enabling real-time analytics for financial reporting, improving data visualization clarity by **40%**.
- Developed **Node.js REST APIs** with **Express.js and MongoDB**, implementing **indexing and aggregation pipelines** to reduce API response time by **35%**.
- Integrated **WebSockets** and **Redis Pub/Sub** for real-time notifications, reducing latency by **50%** in a live customer support platform.
- Refactored a **monolithic application** into a **microservices-based architecture** using **Docker, Kubernetes (GKE), and Cloud Run**, improving deployment speed and **reducing downtime by 60%**.
- Implemented **server-side rendering (SSR) and static site generation (SSG)** using **Next.js**, boosting SEO rankings and **reducing page load times by 30%**.
- Converted legacy **React class components** to **functional components with hooks**, reducing state management complexity and improving code maintainability.
- Developed a **secure authentication system** with **JWT, OAuth 2.0, and Firebase Authentication**, cutting unauthorized access attempts by **60%**.
- Designed **CI/CD pipelines** using **Jenkins, GitHub Actions, and Google Cloud Build**, automating testing and deployment, reducing manual effort by **70%**.
- Engineered a **role-based access control (RBAC) system** with **MongoDB and Node.js**, enforcing granular permission levels across enterprise applications.
- Optimized **image and asset loading** by integrating **Cloudinary, lazy loading techniques, and Cloud CDN**, improving performance on low-bandwidth networks.
- Created **custom React UI components** using **Material-UI and Bootstrap**, maintaining consistent design standards across multiple web applications.
- Integrated **Stripe API and PayPal SDK** for secure payment processing, reducing transaction failures by **25%** and ensuring full **PCI-DSS compliance**.
- Developed a **document storage and access control system** using **Google Cloud Storage and Firebase Firestore**, streamlining file management for enterprise users.
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**Associate Software Engineer**  
**London Web World Limited, London**

**Jan 2020 - Sep 2021**

As a **Senior Software Engineer**, I focused on modernizing and scaling **MERN Stack** web applications by enhancing infrastructure, optimizing API performance, and implementing cloud-based solutions. Using **React.js, Node.js, Express.js, MongoDB, and Google Cloud Platform (GCP)**, I developed highly optimized and scalable solutions.

- Led the development of **React.js applications** with **Redux and Context API**, building modular and maintainable front-end architectures that improved user interaction speed by **40%**.
- Designed and implemented **RESTful APIs and GraphQL endpoints** using **Node.js and Express.js**, ensuring seamless data communication and reducing API response times by **35%**.
- Migrated legacy **monolithic applications** to a **microservices-based architecture** using **Docker and Kubernetes (GKE)**, improving deployment speed and scalability.
- Integrated **GCP Cloud Functions and Firestore** to build a serverless backend, reducing operational overhead and enabling real-time data updates.
- Developed **real-time dashboards** using **React.js and D3.js**, providing data visualization for analytics and improving decision-making processes.
- Implemented **server-side rendering (SSR) with Next.js**, enhancing SEO and reducing initial page load times by **30%**.
- Built an **authentication system** using **JWT, OAuth 2.0, and Firebase Authentication**, strengthening security and reducing unauthorized access attempts by **60%**.
- Designed **CI/CD pipelines** using **GitHub Actions and Google Cloud Build**, automating deployment processes and reducing manual effort by **70%**.
- Engineered a **role-based access control (RBAC) system** using **MongoDB and Node.js**, ensuring secure access management across applications.
- Optimized **React.js performance** by implementing **lazy loading, code splitting, and React.memo**, reducing component re-render times and enhancing application efficiency.
- Developed a **real-time messaging system** using **WebSockets and Redis**, enabling instant communication for users and improving engagement by **50%**.
- Integrated **Stripe API for secure payment processing**, reducing transaction failures by **25%** and ensuring PCI-DSS compliance.
- Created a **file storage and management system** using **Google Cloud Storage**, enabling scalable and secure document handling for enterprise users.

## Personal Projects

❖ [Epicentric Consulting](#)

- **Project Description;** Epicentric Consulting specializes in solving complex business challenges with innovative solutions, helping teams drive change through expertise and creativity.
- **Tech Stack;** React.js, Node.js, Express.js, MongoDB, Material-UI, Redux, RESTful APIs, Git, Docker, Google Cloud Platform (GCP).
- **Role;** Senior MERN Stack Developer – Full-Stack Development, API Design, Cloud Deployment.

#### ❖ Six String Country

- **Project Description;** Six String Country offers comprehensive guitar and bass lessons with a focus on country music, providing users with an interactive learning platform.
- **Tech Stack;** React.js, Node.js, Express.js, MongoDB, WebSockets, Next.js, Redux, AWS S3, Axios, OAuth 2.0.
- **Role;** Full Stack Developer – Front-End Development, Real-Time Streaming, API Development, User Authentication.

#### ❖ Buildware

- **Project Description;** Buildware is a comprehensive project management platform designed specifically for construction professionals, enabling efficient blueprint management, task division, and streamlined communication across construction projects.
- **Tech Stack;** React.js, Node.js, Express.js, MongoDB, Material-UI, Redux, WebSockets, GCP Firestore, Docker, Kubernetes.
- **Role;** MERN Stack Developer – Back-End Development, Real-Time Collaboration, Cloud-Based Data Management.

#### ❖ Factorial

- **Project Description;** Factorial is a comprehensive HRMS platform, enhancing HR operations for businesses in France and Spain by integrating payroll, performance tracking, and employee self-service tools.
- **Tech Stack;** React.js, Node.js, Express.js, MongoDB, Google Cloud Run, Terraform, GitLab CI, Prometheus, Grafana.
- **Role;** DevOps & MERN Engineer – CI/CD Automation, Cloud Infrastructure Optimization, Fault-Tolerant System Design.

#### ❖ ShareWell

- **Project Description;** Share Well is an online community dedicated to peer-led mental health support, offering individuals a safe and supportive space to address

life's challenges together.

- **Tech Stack;** React.js, Node.js, Express.js, MongoDB, Firebase Authentication, Next.js, Material-UI, RESTful APIs, WebSockets.
- **Role;** Tech Lead – Full-Stack Development, Real-Time Messaging, API Integration, Database Management.

## Education

- Bachelor of Software Engineering, University of the Punjab (Achieved with Distinction)