

# JOHN SALEM ROBERT

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Full-stack developer with 2 years of expertise building scalable applications using MERN and PERN stacks. Demonstrated success reducing server latency by 40% and improving front-end performance by 75% through modern React architectures. Experienced in leading Agile development teams, implementing secure authentication systems, and optimizing real-time applications across healthcare, e-commerce, and fintech domains.

## TECHNICAL SKILLS

- Languages & Framework:** Javascript (ES6+), Typescript, Node.js, Express.js, React.js, Redux/Zustand, RTK/Tanstack query, REST APIs.
- Databases:** Postgres, MongoDB, Sequelize, Mongoose, Firebase
- DevOps & Tools:** AWS(S3, EC2, RDS, SES), Docker, Git, Github, Nginx, CI/CD
- Testing:** TDD, Unit and Integration Testing.
- Others:** Agile/Scrum, [Socket.IO](#), OAuth2, JWT, Github Projects, Postman

## PROFESSIONAL EXPERIENCE

- Lead Software Engineer, Octathron** Jan/2024 – current
- Spearheaded the development of a multi-role real-time application using Node.js, React and Socket.IO , reducing server response latency by **40%**.
  - Led full-stack architecture design and implemented secure RESTful APIs with token based authentication (JWT/OAuth2).
  - Guided a cross-functional team adopting Agile methodologies and modular React architecture, improving delivery time by **25%**
  - Rewrote legacy front-end code to modern React architecture, improving load time by **75%** using lazy loading and CDN caching strategies.
  - Developed automation scripts using **Playwright** to scrape structured data from dynamic web sources, processed results using **OpenAI API** for text analysis, and integrated outputs into backend workflows via **RESTful server APIs**.
- JavaScript Game Developer, Smart Engineering & Design Solutions (Part-time)** Sep/2023 – Dec/2024
- Designed and developed browser-based interactive cybersecurity training games for TryHackMe, using **pure JavaScript**, **Canvas API**, and **vanilla PHP**.
  - Engineered custom DOM-based event systems to simulate hacking environments, puzzles, and feedback loops to improve player immersion.
  - Optimized game loops and animation rendering to ensure **60+ FPS** across devices, implementing techniques such as requestAnimationFrame and resource preloading.

## PROJECTS HIGHLIGHTS

- Semantic Review Analyzer – Final Year Project**
- Developed a **MERN-stack e-commerce platform** with integrated sentiment analysis engine for product reviews.
- Medical EHR Optimization Platform – HouseCall MD**
- Contributed to a HIPAA-compliant EHR system enabling doctors and nurses to manage patient care, task assignment, and clinical data in real-time.
  - Implemented a unified patient information system that centralized patient’s data in one place at all times for doctors and nurses.

**BuilderBuilderPro – AI-enabled Smart Construction Management System**

- Architected a full-stack, role-based workflow platform for managing work orders, scheduling, and communication across construction teams.
- Built modular interfaces for admin, contractor and project manager with dynamic permissions and real-time status updates.
- Integrated **chat using SocketIO, event-based calendar scheduling**, file uploads, **weather-alerts APIs, OpenAI SDKs**, and project notifications.
- Implemented Stripe for secure payments, built custom invoicing modules, and launched financial reporting dashboards, resulting in **100% billing transparency**.

**Thready – Full-Stack Social Media Platform (Personal Project)**

- Built a Twitter-style social media app with features like real-time posting, nested commenting, and liking, using **MERN stack** and WebSockets.
- Focused on performance optimization using **MongoDB indexing**, component memoization, and API response profiling.
- Emphasized clean code practices, modular design, and responsive UI using TanStack routing, Tailwind & ShadCN.

**Blessed Funds– Financial Tracking System (Personal Project)**

- Designed and developed a lightweight web platform to help non-profit organizations track weekly/monthly donations and generate financial reports.
- Built role-specific access for admins and volunteers to view and manage incoming funds, allocation records, and donor engagement logs.

**PROFESSIONAL DEVELOPMENT & AWARDS**

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<b>Bachelor in Computer Science</b> , Foundation University, Rawalpindi, Pakistan (GPA: 3.1)	2019 -2023
<b>AS/ A Levels</b> , Our Own English High School, Al Ain, UAE (Maths, Physics, IT)	2016 -2018

**CERTIFICATE**

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Professional Certificate - Meta Front-End Developer | [Credential](#)  
Front-End Developer Capstone | [Credential](#)  
MERN Stack – PSEB - Node.js, Express, MongoDB, Responsive Web Design (Certificate in hand)