

Muhammad Hassan Jamil Khan

Frontend Software Engineer

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📄 Profile

Software Engineer with hands-on experience in **frontend development** using **Angular** and **React**, specializing in building **scalable, responsive**, and **data-intensive** web applications. Proven expertise in **modernizing legacy systems**, integrating **GraphQL/REST APIs**, and enhancing **performance metrics** through **RxJS**, **NgRx**, and **Web Workers**. Skilled in **component-driven architecture**, **modular UI development**, and **cross-device UX design**, consistently delivering **maintainable solutions** across diverse domains including **sports analytics**, **maritime logistics**, **legal tech**, **clinical trials**, and **e-commerce**.

My future aspirations include **driving innovation** in **frontend performance**, **mentoring junior engineers**, and becoming a key contributor to **large-scale systems** that leverage **AI**, **real-time collaboration**, and **cloud-native technologies**. I aim to evolve into a **Principal Engineer** or **Frontend Architect** role where I can shape **product vision** and **engineering standards** across **cross-functional teams**.

🧠 Skills

- **Programming Languages:** JavaScript (JS), TypeScript (TS)
- **Frontend Frameworks:** Angular (v8–19), React (v17–18)
- **State Management:** NgRx, NgXS, Redux Toolkit, Zustand
- **UI Libraries:** Tailwind CSS, Bootstrap, Material UI, Ant Design, NgBootstrap
- **Component & Grid Libraries:** AG-Grid, jqxGrid, MUI, NgZorro
- **Functional & Utility Libraries:** RxJS, Apollo GraphQL, REST APIs, Lodash, date-fns
- **Testing Tools:** Jest, Jasmine, Karma, Cypress, React Testing Library
- **Build & Dev Tools:** Webpack, Nx Monorepo, Husky, Prettier, ESLint
- **Other Integrations:** AWS S3 (video/file handling), Chart.js (ng2-charts), D3.js, ngx-quill, ngx-highlightjs, ngx-infinite-scroll

💼 Professional Experience

Software Engineer, Optimum Grading [🔗](#)

Sep 2022 – present | (Remote), United States

Projects: OptimumGrading, Reel-Eval

Tech Stack: Angular 17–19, RxJS, NgRx, Apollo GraphQL, AG-Grid, D3.js, Chart.js (ng2-charts), AWS S3, TailwindCSS, ngx-quill, ngx-highlightjs, ngx-infinite-scroll, Jest, Karma

Key Contributions:

- Led the **Angular (v17–19)** front-end development of two integrated football scouting platforms, delivering a **data-rich interface** for grading player performance and reviewing game film. Integrated **Optimum Grading's analytics** and **Reel Eval's intuitive UI**, supporting **real-time, data-driven talent evaluation**.

Interactive Analytics Dashboards

- Developed **dynamic dashboards and reports** with **Angular**, **D3.js**, and **Chart.js (ng2-charts)**, including **custom D3 treemaps** and **side-by-side player comparisons**. Delivered **at-a-glance visualizations** such as **run-pass tendencies** and **performance scores**.

Large Data Handling

- Engineered **scalable data grids** using **AG-Grid** and **ngx-infinite-scroll**, optimized for **high-volume player and play records**. Integrated **advanced filters** and **search tools** to ensure **lag-free access** to thousands of data entries.

Seamless Video Integration

- Enabled **in-app video analysis** by integrating **Hudl**, **Hudl Sideline**, and **Qwickcut** via **AWS S3** and API bridges. Empowered coaches to **navigate from data to synced video clips**, streamlining **film-study workflows**.

Performance Optimization

- Optimized performance using **RxJS** for stream management and **GraphQL (Apollo)** for **parallel data fetching**. Offloaded intensive processing to **Web Workers**, maintaining a **smooth and responsive UI** for heavy datasets.

Responsive UI/UX

- Achieved **cross-device responsiveness** with **TailwindCSS** and **modular component design**, ensuring consistent experiences across **desktops and tablets** in live scouting environments.

Rich Content & Clarity

- Enhanced content entry with **ngx-quill** for rich text notes and **ngx-highlightjs** for syntax highlighting. Boosted **report readability** and **annotation clarity** for coaching and review sessions.

One-Click Reporting

- Implemented **one-click report export and print** functionality, paired with **print-optimized styles**, reducing evaluation reporting time and **simplifying report sharing**.

State Management & Code Quality

- Adopted **NgRx** for **predictable state management** and achieved **~80% unit test coverage** using **Jest** and **Karma**, significantly reducing bugs and supporting **long-term maintainability**.

Software Engineer, Macrosoft


Jan 2020 – Aug 2022 | Karachi, Pakistan

Projects: Reinauer, Stretto, Norstella

Tech Stack: Angular 17, React 18, ASP.NET  **Core**, GraphQL, Zustand, Redux Toolkit, MUI, AG-Grid, Jest, SQL Server

Key Contributions:

Reinauer (PRISM – Vessel Management System)

- Implemented a new **Export Purchase Order Invoice** module using **Angular 17** and **ASP.NET  Core**, enabling finance teams to generate formatted purchase order documents on demand—**eliminated manual workflows**.
- Enhanced **UI performance** and structure with **lazy-loaded Angular modules** and **refactored service-layer architecture**, improving **load times** and **maintainability**.

Stretto (TWC – Legal Case Management)

- Optimized **context menu behavior** and **input focus** for memo and next-activity forms using **React hooks** (useRef, useEffect, useCallback), fixing **memory leaks** and improving form navigation—**reduced form entry friction by 30%**.
- Refactored **interactive forms** to support **server-side GraphQL validation**, and improved **Redux slice handling** for smoother **state transitions** and better **error management**.
- Built **reusable MUI components** with consistent theming and introduced **context-sensitive UX** improvements like **Quick Text insertion**, improving user efficiency.

Norstella (Clinical Trials & Person Management)

- Delivered core features for **two microfrontend modules** (Trial Management and Person Management) under Norstella's **Fusion architecture** using **React 18** and **Zustand**.
- Improved **UI consistency** across microfrontends by fixing **DataTable rendering** issues and standardizing **iconography** (e.g., distinct **Delete icons** to reduce action ambiguity).
- Maintained high **test coverage** with **Jest** and **React Testing Library**, ensuring **regression safety** and confidence in CI/CD pipelines.

Software Engineer, WISL

Jun 2018 – Nov 2019 | (Hybrid), Pakistan

Tech Stack: Angular, RxJS, Material Design, Bootstrap, NgZorro, AG-Grid, Jest, Jasmine

Industries: Advertising, E-commerce, Financial Services, Automotive, Banking

Key Contributions:

OurBillboards – Billboard Advertising Platform (London)

- **Migrated** the app from **ReactJS to Angular**, improving performance, maintainability, and alignment with Angular-based ecosystems.
- Designed a scalable UI system using **Material Design**, **NgZorro**, and **Bootstrap**, improving interface responsiveness and mobile compatibility.
- Implemented **Jasmine-based unit testing** with **70% coverage**, enhancing long-term reliability and reducing defect rates in production.

E-commerce Platform – Promotional Product Distributors

- Rebuilt a **legacy e-commerce site** into a modern **Angular application**, supporting product listing, sourcing, and distributor workflows.
- Streamlined user flows and product filters to enhance purchasing experience and supplier discovery.
- Achieved **85% test coverage** with **Jest**, validating critical shopping and management workflows.

AutoLeap – SaaS for Automotive Repair Shops

- **Optimized API call logic**, resulting in a **75% reduction in data load times** (from 8 seconds to 2 seconds).
- Enhanced **data presentation** using **AG-Grid** and **Material Design**, enabling faster comprehension of repair records and shop analytics.
- Introduced UI responsiveness improvements, improving real-time usability for service technicians.

Aion Rubix – Modular Banking Suite

- Refined **signup workflow** performance, cutting **initial load time by 40%**, leading to increased form completion rates.
- Developed **modular, reusable UI components** using **Material Design** and **Bootstrap**, standardizing experience across banking modules.
- Delivered better onboarding experience through component-level improvements and form validations.

Testing & Quality Assurance Across Projects

- Applied **Jest** and **Jasmine** for unit testing, maintaining **>50% code coverage** across components and feature modules.
- Ensured early bug detection and stable deployments through continuous integration testing practices.

Software Engineer, OurBillboards

Dec 2020 – Sep 2022
(Remote), United Kingdom

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




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



Projects

Optimum Grading, American Football Grading Software 	Sep 2022 – present
Reel-Eval, Simpler Version Of Optimum Grading 	Sep 2022 – Feb 2023
OurBillboards, Digital Billboards Management System 	Jun 2021 – Sep 2022
Stretto Cloud, Funds Distribution Management System 	Dec 2020 – Jun 2021
Encore, Alibaba Clone 	Jun 2019 – Nov 2020
AutoLeap, Autos shop Automation suit 	Feb 2019 – May 2019
Rubix, Digital bank 	Sep 2018 – Jan 2019

Education

Bachelors of computer science, University of Karachi 	2018 – 2022 Karachi, Pakistan
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Courses

- NestJS: The Complete Developer's Guide By Stephen Grider, Udemy** 
- NodeJS - The Complete Guide By Maximilian Schwarzmüller, Udemy (Academind)** 
- React - The Complete Guide By Maximilian Schwarzmüller, Udemy (Academind)** 
- Angular - The Complete Guide By Maximilian Schwarzmüller, Udemy (Academind)** 
- Responsive Web Design Essentials - HTML5 CSS3 Bootstrap By Daniel Walter Scott, Udmey** 