Hanzla Sibghat

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Education

Universität Passau, Germany *October 2024 – current*
MS in Computer Science

National University of Computer And Emerging Sciences, Islamabad Pakistan *August 2019 – June 2023*
BS in Computer Science

*F*inal Year Project: Health Care App: Delivers healthcare and monitoring digitally using smartwatch sensors, ensuring convenient, real-time support for patients. ↗

Professional Experience

Software Engineer *Islamabad, Pakistan*
National Database and Registration Authority (NADRA) *Feb 2024 – July 2024*

- Contributed to the development and optimization of **cutting-edge web applications** for NADRA, streamlining citizen services and enhancing system performance.
- Developed and optimized **responsive web applications** using **React.js**, **Next.js**, and **NestJS**, reducing citizen service processing times by **40%**.
- Implemented **state management solutions** with **Redux Toolkit** and **React Context API**, reducing debugging time.
- Enhanced data validation pipelines with **React Hook Form**, **Yup**, and **NestJS**, ensuring zero data discrepancies and strengthening reliability.
- Refactored **legacy codebases** for **scalability** and **modularity**, achieving a **35%** reduction in duplication.
- Increased system uptime by **20%** by embedding robust **error-handling middleware** and optimizing **API performance**.
- **Professional Projects:**
  - **One App (National Identity System):** Designed and implemented a scalable platform for citizens to apply for and renew national ID cards entirely online. Leveraged **React.js**, **Next.js**, and **NestJS**, reducing processing times and boosting application success rates by **30%**.
  - **KIOSK-NADRA:** Developed a secure self-service kiosk system with **biometric integrations**, enabling ID renewals through IoT-based fingerprint and iris capture devices. Automated workflows reduced manual assistance, cutting queue lengths by **30%** and enhancing efficiency.

Software Engineer *Canada (Remote)*
PLC Group *june 2023 – Feb 2024*

- Integrated scalable **GraphQL APIs** with **TypeScript**, reducing backend query complexity by **35%**.
- Optimized real-time **data-fetching mechanisms** using **React Query** and **GraphQL subscriptions**, halving refresh intervals for telecom analytics platforms.
- Created comprehensive **unit and integration tests** using **Jest** and **React Testing Library**, achieving **95%** code coverage.
- Improved backend performance by implementing **advanced caching strategies** with **Redis** and optimizing **state management** using **Redux Toolkit**.
- Collaborated with cross-functional teams to enhance **UI/UX** for telecom automation tools, ensuring high responsiveness and reducing **API latency** by **40%**.

React Developer *Islamabad, Pakistan*
Zuntech Technologies *January 2023 – June 2023*

- Designed and developed dynamic **UI components** using **React.js**, **TypeScript**, and **SCSS**, aligning with modern web standards.
- Ensured seamless integration of components by collaborating with the **backend team** on **RESTful APIs** and version control via **Git/GitHub**.
- Managed project workflows on **Jira**, and streamlined team communication via **Slack**, ensuring timely delivery of milestones.

Technologies

Frontend Stack: Next.js, Redux Toolkit, React Query, React Hook Form, SCSS, Styled-Components, Bootstrap, Tailwind CSS, Material-UI, Chakra UI, Ant Design Webpack, Babel, Vite

Backend Stack: Node.js, Express.js, NestJS, TypeScript, Redis JSON Web Tokens (JWT), GraphQL (Apollo Server), REST APIs,

Databases: PostgreSQL, SQL server, MySQL, MongoDB, Redis, Firebase Fire store, TypeORM

Speak: English (C1), German (A1)