

# Hanzla Sibghat

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## Education

Universität Passau, Germany MS in Computer Science	October 2024 – current
National University of Computer And Emerging Sciences, Islamabad Pakistan BS in Computer Science	August 2019 – June 2023

Final Year Project: Health Care App: [Delivers healthcare and monitoring digitally using smartwatch sensors, ensuring convenient, real-time support for patients.](#) [🔗](#)

## Professional Experience

Software Engineer National Database and Registration Authority (NADRA)	Islamabad, Pakistan Feb 2024 – July 2024
<ul style="list-style-type: none"><li>Contributed to the development and optimization of <b>cutting-edge web applications</b> for NADRA, streamlining citizen services and enhancing system performance.</li><li>Developed and optimized <b>responsive web applications</b> using <b>React.js</b>, <b>Next.js</b>, and <b>NestJS</b>, reducing citizen service processing times by <b>40%</b>.</li><li>Implemented <b>state management solutions</b> with <b>Redux Toolkit</b> and <b>React Context API</b>, reducing debugging time.</li><li>Enhanced data validation pipelines with <b>React Hook Form</b>, <b>Yup</b>, and <b>NestJS</b>, ensuring zero data discrepancies and strengthening reliability.</li><li>Refactored <b>legacy codebases</b> for <b>scalability</b> and <b>modularity</b>, achieving a <b>35%</b> reduction in duplication.</li><li>Increased system uptime by <b>20%</b> by embedding robust <b>error-handling middleware</b> and optimizing <b>API performance</b>.</li><li><b>Professional Projects:</b><ul style="list-style-type: none"><li><b>One App (National Identity System):</b> Designed and implemented a scalable platform for citizens to apply for and renew national ID cards entirely online. Leveraged <b>React.js</b>, <b>Next.js</b>, and <b>NestJS</b>, reducing processing times and boosting application success rates by <b>30%</b>.</li><li><b>KIOSK-NADRA:</b> Developed a secure self-service kiosk system with <b>biometric integrations</b>, enabling ID renewals through IoT-based fingerprint and iris capture devices. Automated workflows reduced manual assistance, cutting queue lengths by <b>30%</b> and enhancing efficiency.</li></ul></li></ul>	

Software Engineer PLC Group	Canada (Remote) june 2023 – Feb 2024
<ul style="list-style-type: none"><li>Integrated scalable <b>GraphQL APIs</b> with <b>TypeScript</b>, reducing backend query complexity by <b>35%</b>.</li><li>Optimized real-time <b>data-fetching mechanisms</b> using <b>React Query</b> and <b>GraphQL subscriptions</b>, halving refresh intervals for telecom analytics platforms.</li><li>Created comprehensive <b>unit and integration tests</b> using <b>Jest</b> and <b>React Testing Library</b>, achieving <b>95%</b> code coverage.</li><li>Improved backend performance by implementing <b>advanced caching strategies</b> with <b>Redis</b> and optimizing <b>state management</b> using <b>Redux Toolkit</b>.</li><li>Collaborated with cross-functional teams to enhance <b>UI/UX</b> for telecom automation tools, ensuring high responsiveness and reducing <b>API latency</b> by <b>40%</b>.</li></ul>	

React Developer Zuntech Technologies	Islamabad, Pakistan January 2023 – June 2023
<ul style="list-style-type: none"><li>Designed and developed dynamic <b>UI components</b> using <b>React.js</b>, <b>TypeScript</b>, and <b>SCSS</b>, aligning with modern web standards.</li><li>Ensured seamless integration of components by collaborating with the <b>backend team</b> on <b>RESTful APIs</b> and version control via <b>Git/GitHub</b>.</li><li>Managed project workflows on <b>Jira</b>, and streamlined team communication via <b>Slack</b>, ensuring timely delivery of milestones.</li></ul>	

## Technologies

<b>Frontend Stack:</b> Next.js, Redux Toolkit, React Query, React Hook Form, SCSS, Styled-Components, Bootstrap, Tailwind CSS, Material-UI, Chakra UI, Ant Design, Webpack, Babel, Vite
<b>Backend Stack:</b> Node.js, Express.js, NestJS, TypeScript, Redis, JSON Web Tokens (JWT), GraphQL (Apollo Server), REST APIs,
<b>Databases:</b> PostgreSQL, SQL server, MySQL, MongoDB, Redis, Firebase Fire store, TypeORM
<b>Speak:</b> English (C1), German (A1)