

HANZLA SIBGHAT

+49(170) 9098399 ◊ Munich, Germany

hanzlasib24@gmail.com ◊ linkedin-hanzla-sibghat ◊ Portfolio-Hanzla

EDUCATION

Master of Computer Science , Universitat Passau, Germany	2024 - Present
Bachelor of Computer Science , National University of Computer And Emerging Sciences, Pakistan	2019 - 2023

SKILLS

Languages:	JavaScript, TypeScript, Python, SQL, c++
Frontend:	Next.js, Tailwind, Material-UI, Progressive Web Apps, React Native, WebExtensions
Libraries:	React, Context API, Redux Toolkit, React Hook Form, Lazy Loading
Backend:	NestJS, Node.js, FastAPI, PostgreSQL, MySQL, MongoDB, Redis, Service Workers, GraphQL
AI/ML & NLP	Generative AI, LLMs, PyTorch, LangChain, LangGraph, RAG Systems, Prompt Engineering
DevOps & Tools	GCP (Google Cloud Platform), Docker, CI/CD Pipelines, Git, GitHub, Swagger, Postman
Core Skills:	Team Collaboration, Problem-Solving, Cross-browser Compatibility, English (C1), German (A2)

WORK EXPERIENCE

Software & AI Engineer Siemens	Feb 2025 - Present <i>Munich, Germany</i>
--	--

- Developing multi-modal browser extensions using React.js, TypeScript, and WebExtensions for intelligent document, image, and text processing.
- Integrating advanced LLMs (GPT-5, GPT-4o, Mistral) to enable context-aware AI chat and smart assistance.
- Implemented RAG pipelines with vector embeddings and retrieval models, boosting document search accuracy by over 40%.
- Streamlined PDF and image interpretation using Vision-Language Models, accelerating processing and user feedback by 60%.
- Enhanced AI response precision through prompt engineering, data tuning, and secure enterprise-grade integration.

Full Stack Developer National Database and Registration Authority (NADRA)	Feb 2024 - Sept 2024 <i>Islamabad, Pakistan (On Site)</i>
---	--

- Developed automated IoT-integrated kiosks with Java and React.js, reducing manual interventions by 45%.
- Optimized workflows in React.js and Java, cutting processing time by 40% and improving customer service.
- Enhanced state management with Redux and React Context, reducing page reloads by 25%.
- Upgraded UI/UX with Material-UI, increasing user satisfaction and reducing bounce rate by 15%.
- Improved system uptime by 20% via robust error handling and API optimization.

Full Stack Developer PLC Group	July 2023 - Feb 2024 <i>Ontario, Canada (Remote)</i>
--	---

- Reduced query complexity by 35% by designing scalable GraphQL APIs with TypeScript.
- Boosted data fetching speed by 50% using React Query and optimized GraphQL queries.
- Achieved 95% test coverage with Jest and React Testing Library.
- Improved backend efficiency by adding Redis caching and Redux Toolkit for state handling.

PROFESSIONAL PROJECTS

KIOSK-NADRA Developed a secure self-service kiosk system using **Java** for backend integration and **React** for the frontend, featuring biometric fingerprint and iris capture for automated ID renewals, reducing manual assistance by **45%** and queue lengths by **30%**, significantly enhancing **operational efficiency**.

One App (National Identity System) Designed and implemented a scalable platform for online national ID applications, reducing processing times by **40%** and boosting success rates by **30%**, improving **accessibility** and **efficiency** for millions of citizens.