

# HANZLA SIBGHAT

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## 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** Feb 2025 - Present  
Siemens *Munich, Germany*

- 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** Feb 2024 - Sept 2024  
National Database and Registration Authority (NADRA) *Islamabad, Pakistan (On Site)*

- 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** July 2023 - Feb 2024  
PLC Group *Ontario, Canada (Remote)*

- 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.