

Ali Saleem Hasan

Software Engineer

Location: Fritz-Werner-Straße 12, 12107 Berlin

Visa Status: ChancenKarte Visa

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Professional Profile

Software Engineer with 3+ years of experience in full stack development, specializing in NestJS, NextJS, and agentic AI workflows. Recently completed a Master's in Computer Science. Currently based in Germany on a Chancenkarte visa and eligible to work anywhere in the country. Continually eager to learn modern technologies and face emerging challenges in the software solutions landscape.

Skills:

Programming Languages: TypeScript, Python, C++

AI & Automation: RAG Pipelines, LLM Integration, Prompt Engineering, Context Management

Frameworks & Libraries: React, Next JS, React Native, Nest JS, FastAPI

DevOps & Cloud Infrastructure: AWS, Docker, Kubernetes, CI/CD (GitHub Actions, Tekton)

Databases: PostgreSQL, MySQL, MongoDB, Cassandra, Weaviate

Work History

03/2023 – 09/2024 **Freelance Software Engineer**

Remote

Built and shipped custom enterprise and retail web applications (5+), dynamically adapting to client tech stacks to resolve distinct architectural constraints.

Tech stack: *Nest JS, Next JS, PostgreSQL, Redis, RabbitMQ, React, Docker*

- Collaborated on a full-stack **CRM system (NestJS/Next.js)** using **object-oriented design**, cutting database response times by 60% (2.5s to under 1s) through **schema redesign**.
- Contributed to an **AWS-hosted, microservices-based** e-commerce platform for a large-scale UAE retailer, improving deployment reliability and release speed through **DevOps-managed CI/CD pipelines**.
- Paired with another developer to restructure student data dashboards (MENA–Europe), cutting average processing time by an estimated 40% by decoupling synchronous endpoints into **event-driven RabbitMQ/Redis** worker queues.

02/2021 – 02/2023 **Web Developer**

IdeaPipe – ideapipe.com | Damascus, Syria

Collaborated within a 6-person Agile team at a regional startup to build software solutions for customers.

Tech stack: *Node JS, MongoDB, React JS, Redux, Express*

- Collaborated with senior engineers to analyze slow MongoDB query paths, **implementing compound indexing** that helped reduce API response times by 20% (from ~500ms to ~400ms).
- Streamlined Node.js API **endpoint optimizations** by adding **document query projections** and eliminating redundant database lookups across core web application routes.
- Participated in **agile performance reviews** and **code profiling sessions**, upskilling in production MongoDB query tuning and asynchronous Node.js patterns.
- Stabilized UI state by integrating **Redux** as part of the team's application maintenance efforts, reducing reported UI bugs.

Selected Projects

[DocGen \(AI-Powered Documentation Architecture\) - Masters Thesis](#)

Tech stack: FastAPI, Tree-sitter, SQLite, Temporal.IO, Python, Vector Store (Weaviate), HayStack, Redis, React JS

Github: <https://github.com/docGen-io>

[NowHere \(High-Concurrency Geospatial Platform\)](#)

Tech stack: NestJS, WebSockets, Redis, AWS S3, TypeScript, AWS RDS, React Native, GRPC

Github: <https://github.com/AliSaleemHasan/NowHere-backend>

[XYST \(Navier-Stokes solver for engineering flows\) - Contributor](#)

Tech stack: C++, MPI, OpenMP, Charm++, CMake, C

Website: <https://xyst.cc/>

[Real Time Action Detection - Bachelor Thesis](#)

Tech stack: Python, Tensorflow, Django, React JS, OpenCV, Pandas

Github: <https://github.com/AliSaleemHasan/real-time-action-detection>

Education

09/2024 – 06/2026

Master of Computer Science

Széchenyi István University | Győr, Hungary

Grade: GPA: 4.92/5

Core Coursework: Machine Learning, Deep Learning, Production Software Development, High Performance Computing.

09/2017 – 06/2022

Bachelor of Information Technology Engineering

Damascus University | Damascus, Syria

Grade: Grade: 75.03/100

Core Coursework: Software Engineering, Advanced Databases, Information Retrieval, Programming Languages.

Languages

English: C1, Deutsch A1 (Currently enrolled in A2)