

# NICLAS GREGOR

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## EXPERIENCE

**Student assistant, Fraunhofer Institute for Secure Information Technology (SIT), Darmstadt** 2023 - 2024

- Analysis of the distribution channels of false information in messenger services using various NLP techniques
- Optimization of the preprocessing pipeline
- Fine-tuning of SOTA models in the area of sentiment analysis
- Sole development of the demonstrator to visualize the research results of the Dynamo project

**Trainee, Pexon Consulting GmbH, Frankfurt am Main** 2023

- Deployment of REST APIs within a Kubernetes cluster
  - Creating CI/CD pipelines to automate the software development process
  - Automated provisioning of infrastructure in the cloud using Terraform
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## EDUCATION

**Technical University of Darmstadt** 2022 - Present

Bachelor of Science in Computer Science

- Focus on artificial intelligence

**Max-Eyth-Schule** 2019 - 2021

High school degree in Business & Administration Ø2.0

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## PRIVATE PROJECTS

**WYSIWYG editor based platform to improve the learning process of students** 2023 - Present

- Fullstack application developed with Next.js/React, TypeScript, Tailwind, tRPC, Prisma, PostgreSQL, S3, NextAuth, TipTap, shadcn

**2 NPM packages for extending an open source WYSIWYG editor** 2024

- A total of 40,000+ downloads

**ImmoGPT** 2023

- AI-based real estate consultant who has access to various tools for searching and calculating properties

**Algorithms simply explained** 2023

- An open source tutorial series on GitHub, explaining basic concepts of algorithmics including different algorithms
- In addition to the tutorial series, I have developed a visualization tool for search algorithms, which allows participants to gain a more intuitive understanding of the content learned

## CERTIFICATES

- AWS Certified Solutions Architect Associate
  - Pexon Consulting Cloudbotcamp AWS & Python
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## TECHNICAL KNOW-HOW

- **Python**
    - Pytorch
    - Numpy
    - Pandas
    - Flask
    - Prometheus
    - MyPy
  - **SQL / MySQL / PostgreSQL**
  - **JavaScript / TypeScript**
    - Next.js
    - React
    - tRPC
    - Prisma
    - NextAuth
    - Playwright
  - **HTML / CSS / Tailwind**
  - **AWS**
  - **Git / GitHub / GitLab**
  - **Docker**
  - **Kubernetes**
  - **Terraform**
  - **Java / Scala / Assembler / C / C++ (Basics)**
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## LANGUAGES

- German (native)
- English (C1)