Noushad Hossain

Lead Software Engineer · Python Backend, Data & AI Platforms

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Chancenkarte (Opportunity Card) · Open to relocation across Germany · Available immediately



PROFILE

Lead Software Engineer with 6 years of experience building Python backend systems, data pipelines and cloud-native platforms. Currently leading the architecture of an AI-driven hospitality analytics platform: microservices on AWS/EKS, large-scale data ingestion, LLM-based features and CI/CD. Combines hands-on engineering with team leadership, code reviews and sprint coordination. Based in Dortmund and ready to start in a full-time role anywhere in Germany.

PROFESSIONAL EXPERIENCE

Lead Software Engineer · **Cogwheel Analytics, Colorado, USA** 03/2025 – present

- Lead architecture and development of an AI-powered analytics platform for the hospitality industry; lead the engineering team and its code reviews.
- Design and build scalable Python microservices and data pipelines for large-scale data ingestion, processing and automation.
- Integrate LLM-based features that turn operational data into automated insights.
- Own cloud infrastructure (AWS, EKS, Docker) for high availability, plus CI/CD pipelines and automated deployments.

Senior Software Engineer · **Cogwheel Analytics, Colorado, USA** 07/2023 – 02/2025

- Developed high-performance backend services and REST APIs (Python, PostgreSQL); reduced latency through query and service optimisation.
- Designed cloud-native infrastructure on AWS (EC2, S3, Lambda) with containerised deployments on Docker and Kubernetes (EKS).
- Led the initiative to integrate AI capabilities into the company's BI tools.

Team Lead · **Staff Asia Ltd., Sylhet, Bangladesh** 07/2022 – 06/2023

- Led development of ETL pipelines and a data warehouse; built automation for data scraping, processing and visualisation.
- Developed backend services with Django REST Framework; managed technical projects and mentored team members.

Data Analyst, Research & Development · **Staff Asia Ltd., Sylhet, Bangladesh** 11/2020 – 06/2022

- Built Python data pipelines, automation tools, dashboards, a recommendation system and RASA chatbots.
- Integrated Google, Facebook and Microsoft APIs for automated data collection.

TECHNICAL SKILLS

Backend	Python, FastAPI, Django REST Framework, REST APIs, microservices, distributed systems, PostgreSQL
Data & AI	ETL / data pipelines, data warehousing, Pandas, LLM integration, vector databases, TensorFlow, Keras, OpenCV, RASA, Plotly, Streamlit, statistics
Cloud & DevOps	AWS (EC2, S3, Lambda, EKS), GCP, Docker, Kubernetes, CI/CD, Git
Ways of working	Agile / Scrum, sprint planning, code reviews, mentoring developers, R&D

EDUCATION

B.Sc. Electrical & Electronic Engineering 2016 – 2020
Shahjalal University of Science and Technology, Bangladesh

Second Major: Computer Science & Engineering 2017 – 2020
Shahjalal University of Science and Technology, Bangladesh

Advanced Certificate for Management Professionals 2025
Institute of Business Administration, University of Dhaka

LANGUAGES

Bengali – native
English – C1 (fluent, professional working language)
German – B1 reading/listening, A2 speaking; actively learning towards B2

PUBLICATIONS & ACTIVITIES

4 IEEE publications (2019–2021), incl. RAICON, ICCIT and ICREST: face recognition, robotics, visible-light communication, MOSFET modelling.

Founding Chairman, IEEE Robotics & Automation Society student chapter, and Director of Robotics, SUST (2018–2020).