

# Moshfiqur Rahman

Software Engineer | Crafting AI, Apps, and Scalable Solutions

Wiesbaden, Germany 📍

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moshfiqur.github.io 🌐

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## Professional Summary

- 19+ years of experience as a Software Engineer, specializing in designing, developing, and deploying scalable, high-traffic web and server applications.
- 5+ years of freelancing and remote work experience, excelling in self-management, delivering high-quality solutions across global teams.
- Holds Bachelor's and Master's degrees in Computer Science, combining strong academic knowledge with hands-on expertise in research and industry.
- Proficient across the full software development lifecycle, with a focus on AI-driven solutions, mobile apps, cloud-based platforms, and scalable architectures.
- Based in Germany since 2011, holding permanent residency, and actively engaged in the local tech and professional community.

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## Work Experience

### Software Developer

**Yalwa GmbH, Wiesbaden, Germany**

*May 2013 – April 2025*

- Developed and deployed a scalable data processing and machine learning platform for a high-traffic e-commerce platform, processing billions of page views per month. Implemented content quality models (spam detection, image classification, text similarity, fraud detection) using Python, TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face Transformers, and libraries like pandas, NumPy, and OpenCV.
- Built and integrated a content ingestion and processing system for organic and third-party data using SOAP/RESTful web services, GraphQL APIs, and proprietary APIs, ensuring seamless data integration and delivery across multiple media channels.

### Thesis Student

**Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), Kaiserslautern, Germany**

*April 2013 – February 2014*

- Authored a Master's thesis on AI-powered, context-aware workspace design for knowledge workers. Developed machine learning algorithms to enhance user experience with context-sensitive recommendations and automation, significantly boosting productivity.
- Engineered a robust backend with Java, MySQL, and RESTful APIs for complex data processing and seamless AI model integration. Developed a responsive frontend using modern web technologies,

ensuring a cross-platform user interface.

## **Student Assistant**

### **Fraunhofer IESE, Kaiserslautern, Germany**

*June 2011 – December 2012*

- Developed a backend system for an AI-powered smart home aimed at assisting elderly people with dementia. Collaborated with the Fraunhofer Institute on cutting-edge software engineering projects and conducted data analysis for research initiatives using Java.
  - Contributed to the development of innovative software engineering methodologies by participating in team meetings and workshops, providing insights and supporting prototyping efforts.
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## **Technology Stacks**

### **AI/ML**

- LLMs: GPT, Mistral, Llama, BERT, LLaVA, DeepSeek
- NLP, Predictive Analytics, Computer Vision
- TensorFlow, PyTorch, Scikit-learn, OpenCV
- RAG, AI Agents, Content Moderation (OpenAI, HiveAI)

### **Web & System App (Python)**

- Django, Flask, FastAPI
- Celery (Task Queues), SQLAlchemy

### **Web App (PHP)**

- Laravel, Symfony, CodeIgniter
- WordPress, Drupal

### **Desktop App (Java)**

- Spring Boot, Hibernate
- Maven

### **Full Stack (JavaScript & TypeScript)**

- React, Angular, Vue.js, Next.js
- Node.js, Express.js
- Vercel (CI/CD, Deployment)

### **Mobile App (Flutter + React Native)**

- Dart, Flutter, React Native
- State Management: Redux, Provider

### **Version Control & CI/CD**

- Git, GitHub, GitLab
- Pipeline Integration

## Cloud & Deployment

- AWS (EC2, S3, Lambda), GCP (Firebase, Firestore, Authentication, Cloud Functions, BigQuery)
- Docker

## Database & APIs

- SQL: MySQL, MariaDB, PostgreSQL
  - NoSQL: MongoDB, CouchDB, Couchbase
  - REST, GraphQL, Apollo GraphQL
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## Soft Skills

- Strategic Thinker
  - Analytical Problem Solver
  - Results-Oriented Performer
  - Hands-On Leader
  - Organized
  - Lead by Example
  - Adaptable and Flexible
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## Languages

- English: advanced
  - German: intermediate (B1)
  - Hindi: conversational
  - Bangla: Native
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## Certifications and Trainings

- Text Retrieval and Search Engines, University of Michigan (Coursera), 2018
  - Applied Text Mining in Python, University of Michigan (Coursera), 2018
  - Applied Plotting, Charting and Data Representation in Python, University of Michigan (Coursera), 2018
  - Applied Social Network Analysis in Python, University of Michigan (Coursera), 2018
  - Applied Machine Learning in Python, University of Michigan (Coursera), 2018
  - Introduction to Data Science in Python, University of Michigan (Coursera), 2018
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## Education

### Master in Computer Science

Technical University of Kaiserslautern, Kaiserslautern, Germany  
2011- 2014

## **Bachelor of Science in Computer Science and Engineering**

BRAC University, Dhaka, Bangladesh

2002-2007

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### **My Hobbies**

- 3D Animation & Game Development
- Traveling