MD AMANULLAH

Java Full-Stack Developer · AI/ML Engineer · Entrepreneur

📞 +49 178 188 5400 ✉ contact@amanullah.me 📍 Giessen, Germany (near Frankfurt)
🌐 amanullah.me github.com/amanullahmd linkedin.com/in/m-amanullah

PROFILE

Computer Science student (B.Sc.) with solid experience in Java/Spring Boot full-stack development and AI/Machine Learning. Building production-ready web applications with Spring Boot, Next.js, and PostgreSQL, as well as deep learning models with PyTorch (93.4% accuracy). As Co-Founder of a FinTech startup, I bring entrepreneurial thinking, agile workflows, and team leadership. Seeking a working student position in Java Full-Stack / AI.

WORK EXPERIENCE

Project Development Manager & Developer (Part-Time)   *Oct 2024 – Present*
Adaptify Loop, Frankfurt (Remote) | paylio.io
- Co-Founder: Product strategy and full-stack development of FinTech/SaaS products
- Building production-ready systems with Spring Boot, Next.js, React, PostgreSQL, AWS
- Coordinating engineering teams, database design, and technical architecture decisions
- Agile project management with Jira, MVP launch within 3 months

IT Support & Network Engineer (Part-Time)   *Dec 2021 – Feb 2023*
Aptiv, Wuppertal
- Data quality assurance and error analysis on large datasets
- Process optimization, ticketing systems, and structured problem-solving
- Collaboration in international teams, 95%+ first-contact resolution

TECHNICAL SKILLS

- **Java/Backend:** Java, Spring Boot, Spring Data JPA, Spring Security, Spring MVC, Hibernate ORM, Maven, Gradle, JUnit & Mockito, REST APIs, Microservices
- **Frontend:** React, Next.js, TypeScript, JavaScript, Tailwind CSS, HTML/CSS
- **AI/ML:** PyTorch, TensorFlow, CNN (ResNet18), RNN/LSTM, scikit-learn, Hugging Face, OpenCV, Python
- **Databases:** PostgreSQL, MySQL, MongoDB, SQL, ETL Processes
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, CI/CD, Linux/Bash, Git/GitHub
- **Tools:** Jupyter Notebooks, TensorBoard, Apache Superset, FastAPI, Node.js

FULL-STACK PROJECTS

Event Management Platform   GitHub
Spring Boot, Next.js, React, TypeScript, PostgreSQL, JWT Authentication
- Full-stack platform for event management with Spring Boot backend and Next.js frontend
- RESTful API with JWT authentication, ticket booking, and real-time notifications
- Database optimization for scalability, responsive design for mobile and desktop

Inventory Management System   GitHub
Spring Boot, Next.js, React, PostgreSQL, Docker, REST APIs
- Real-time inventory tracking with role-based access control
- Backend: RESTful API with Spring Boot; Frontend: Responsive web app with Next.js
- Docker containerization and CI/CD pipeline, reduced manual data entry by 80%

Paylio − Invoice & Payment Platform   paylio.io
Next.js, React, TypeScript, Supabase, PostgreSQL
- FinTech platform for invoice creation and payment processing for freelancers
- Idea validation, system architecture, database design, and team coordination via Jira

AI & MACHINE LEARNING PROJECTS

CNN Image Classifier for Household Objects   GitHub
Python, PyTorch, torchvision, scikit-learn, OpenCV

- CNN with Transfer Learning (ResNet18): 93.4% accuracy across 4 object classes
- Data augmentation, confusion matrix analysis, GUI-based prediction

Music Generation with RNNs [GitHub]

Python, PyTorch, LSTM, Flask, JavaScript
- 2-Layer LSTM trained on 214,122 Irish folk tunes, 74.91% Top-1 / 95.40% Top-5 accuracy
- Flask web application with real-time generation and temperature control

E-Commerce Data Visualization Dashboard   Apache Superset, SQL, PostgreSQL
- Interactive dashboards for Amazon sales data, reduced reporting time by 70%

EDUCATION

Bachelor of Science – Computer Science   *Sept 2021 – Expected Winter 2027*

University of Applied Sciences Mittelhessen (THM), Giessen

Focus: Data Structures, Algorithms, Databases, Statistics, Deep Learning

Studienkolleg (University Entrance Qualification)   *March 2020 – Feb 2021*

University of Applied Sciences Zittau/Görlitz

CERTIFICATIONS

Google IT Support Professional Certificate   Coursera, 2021

LANGUAGES

Bangla (Native)   ·   German (Fluent)   ·   English (Fluent)   ·   Hindi (Fluent)