

# Anthony Okala

## Curriculum Vitae

Zapfenweg 18, 60120 Halle (Saale), Saxony-Anhalt, Germany

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With over 10 years of expertise in automation, software development, machine learning, and safety-critical systems. Specializing in Java, Python, JavaScript, TypeScript, PHP, and modern frameworks such as React, Django, Spring Boot, and Laravel. Expert in UiPath, KNIME Analytics, and Power Automate. Fluent in English, German, and French.

## Practical Experience at Work

### IT Consultant - Vehicle Technology & Planning

DB Regio AG | August 2023 - Present

Details:

- Developed a Python-based system for analyzing train timetables, identifying conflicts, and optimizing routes, resulting in a 15% increase in operational efficiency and a 10% reduction in delays.

### Software Developer

Achelis GmbH | August 2021 - August 2023

Details:

- Designed and implemented a Java-based web application for managing customer data, featuring a responsive UI and robust security measures, leading to a 20% increase in user satisfaction.

### RPA Developer

DB Regio AG | August 2021 - June 2022

Details:

- Automated repetitive tasks using UiPath, reducing manual effort by 30% and improving data accuracy, contributing to a 10% increase in overall process efficiency.

### Working Student - Software Developer

Eves IT | June 2018 - February 2021

Details:

- Assisted in the development of a Java-based web application for managing customer data, contributing to the implementation of new features and bug fixes.
- Technologies used: Java, Spring, MySQL, Git, Bamboo for CI/CD, SonarQube for QA, Miro for digital team kanban board, Zoom and MS Teams for remote collaboration

## Education

### Master of Science in Computer Science - Technical University of Clausthal

2018 - 2024

- Key projects: Deep Learning for Image Classification, Reinforcement Learning for Robot Navigation, and Data Mining for Customer Segmentation.

### Bachelor of Science in Computer Science - Technical University of Clausthal

2013 - 2018

- Key projects: Computer Vision for Object Detection, Database Systems for E-commerce, and Logic Programming for Constraint Satisfaction Problems.

### High School Diploma - Gymnasium

2008 - 2011

- Additional Achievement: Learned German language after graduation and obtained the highest language level certificate.

## Practical Experience at School

### Master's Thesis: End-to-End Learning System for Autonomous Drone Navigation

Technical University of Clausthal | 2018 - 2024

Supervisors: Prof. Dr. Andreas Rausch, Dr. Adina Aniculaesei

Description:

This project aimed to revolutionize autonomous drone flight by implementing a cutting-edge end-to-end

Key Achievements:

- Developed a deep learning architecture for real-time object detection and trajectory optimization, achieving a 20% improvement in navigation accuracy.

Tools:

Python, TensorFlow, Keras, AirSim, Pandas, Scikit-learn, Git, GitHub, Machine Learning, Autonomous Systems

features such as non-planar flight paths.



## OKAS FLD - Drive & Delivery Services

Business Website Project | 2025

Description:

Modern business website for OKAS FLD (drive & delivery services). Built with Next.js (App Router),

Details:

• Designed and developed a modern, responsive web application for OKAS FLD, deployed from GitHub to

Tools: Next.js, React, TypeScript, Tailwind CSS, GitHub, Render.com, AWS Route 53

## ASOK SE - Enterprise Web Application

ASOK SE SARE | 2024

Description:

Comprehensive web application aimed at enhancing enterprise advertisement. Integrated multiple

Details:

• Designed and developed a comprehensive web application for ASOK SE, featuring a robust backend and

Tools: ML, CSS, JavaScript, Docker, GitHub, Python, Django

## Local Jenkins Container in VS Code Dev Container

Private Project | 2024

Description:

Professional CI/CD development environment with Jenkins configured for Django projects using VS Code

Details:

• Designed and developed a professional CI/CD development environment with Docker support.

Tools: Jenkins, Docker, VS Code, Python, Django, CI/CD, DevOps

## Vivantes Humanitas Web Application

Friend's Project | 2023 - 2024

Description:

Django-based web application for Vivantes Humanitas e.V., enabling efficient management of volunteer

Details:

• Designed and developed a Django-based web application for Vivantes Humanitas e.V., enabling efficient management of

Tools: Python, Django, HTML, CSS, JavaScript

## Pentak SAREL International - Enterprise Web Application

Pentak SAREL International | 2021 - 2022

Description:

Web application using Laravel/Lumen to manage business operations for a friend's company.

Details:

• Designed and developed a web application for a friend's company using Laravel/Lumen to manage business operations.

Tools: PHP, Laravel, Lumen, PHP-Blade, HTML, CSS, JavaScript

## Offer Comparison Web Application

Own Initiative | 2020 - 2021

Description:

Laravel/Lumen-based application to compare online offers, allowing users to make informed purchasing

Details:

• Designed and developed a Laravel/Lumen-based application to compare online offers, allowing users to make informed purchasing

Tools: PHP, Laravel, Lumen, HTML, CSS, JavaScript, Git, GitHub, SQLite

## Restaurant Management Application

Initiative with Friends | 2019 - 2020

Description:

Laravel/Lumen-based system to streamline restaurant operations, including inventory tracking and order

Details:

• Designed and developed a Laravel/Lumen-based system to streamline restaurant operations, including inventory tracking and

Tools: PHP, PHP-Blade, Framework, Git, GitHub, Zoom

## Hairstyle Business Web Application

Initiative with Friends | 2018 - 2019

Description:

Express.js web application to support a friend's hairstyle business by enabling appointment booking and

Details:

• Designed and developed a web application for a friend's hairstyle business, enabling appointment

Tools: Express.js, HTML, TWIG, Framework, MySQL, npm, ngrok, Git, nodemon, babel-node.js

## CSK Student Association Web Application

Own Initiative | 2016 - 2017

Description:

Web application for the CSK student group at TU Clausthal, facilitating event management and

Details:

Designed and developed a full-stack web application using Node.js, TypeScript, and Ionic. Deployed on AWS for high availability

Tools: Node.js, TypeScript, HTML, CSS, Ionic, Cordova, Git

Management and communication among members

## Private Tutoring in Computer Science

Own Initiative | 2014 - Present

Description:

Conducted private tutoring sessions to help students master programming languages and databases,

Details:

Focused on providing practical exercises and real-world applications of frameworks and tools like Django, PHP,

Tools: Java, C++, PHP, Python, SQL, NoSQL, Neo4j, ArangoDB

and analysis skills and as databases such as SQL and NoSQL (Neo4j, ArangoDB)

## Programming Languages

Python (95%)

Java (90%)

JavaScript (85%)

TypeScript (80%)

PHP (85%)

C++ (85%)

VBA Excel (90%)

## Frameworks and Libraries

UiPath (95%)

Django (90%)

Spring Boot (85%)

Next.js (80%)

React Native (80%)

Laravel (85%)

TensorFlow (75%)

## Databases

PostgreSQL (90%)

MySQL (85%)

Oracle SQL (85%)

SQLite (85%)

Neo4j (75%)

ArangoDB (75%)

## DevOps Tools

Git (95%)

Docker (85%)

Jenkins (80%)

Maven (90%)

AWS (70%)

CI/CD (80%)

## Languages

**French - Native proficiency (C2)**

Ideal for communication, documentation, and collaboration in French-speaking environments.

**English - Advanced proficiency (C1)**

Strong written and verbal skills for professional communication and project collaboration in international settings.

**German - Advanced proficiency (C1)**

Fluent in both written and spoken German, with experience studying and working in German-speaking environments.