



Dawood Dilawar
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Skills

Python
FastAPI
Langchain
PHP
MySQL
Postgres
Vue.js
React JS
Typescript
Git
PyTorch
Pandas
Numpy
Docker
HTML
CSS

Languages

English
- Advanced (C1)
German
- Intermediate (B1)

Dawood Dilawar

Software Engineer

About Me A product-focused software engineer with experience in building full-stack applications. Seeking opportunities in a dynamic startup environment to contribute to the development of impactful and innovative products. Passionate about interdisciplinary roles combining AI, design, and development. Strong ability to bridge communication between technical and non-technical teams.

Work Experience

Software Engineer, Check24 GmbH

Working Student, Jan 2022 - Present

- **Business Process Optimization:** Analyzed and re-engineered customer service workflows, resulting in automated email dispatch, invoice generation, and return label systems that reduced processing time by 30% and eliminated manual interventions.
- **API Development:** Developed scalable **RESTful APIs** with real-time data integrations, adhering to best practices for modularity and performance optimization.
- **Frontend Development:** Developed multiple customer-facing features in **Vue.js**, with a focus on scalability, reusability, and state management.
- **MVP Development:** Collaborated on MVP development, contributing to **requirements gathering**, system design, and stakeholder collaboration under tight deadlines.
- **Database Management:** Designed and maintained database schemas for microservices, ensuring data consistency across distributed systems.
- **CI/CD Pipelines:** Regularly prepared and managed CI/CD deployments in containerized environments.
- **Agile Practices:** Actively Participated in Agile methods like sprint planning, retrospectives, and daily stand-ups.

Software Developer, Winning International

Full-time, Jan 2020 - April 2021

- Designed and implemented a MySQL database structure for manufacturing process tracking, supporting real-time order status updates.
- Led end-to-end business process analysis of manufacturing operations, creating detailed process maps and identifying key automation opportunities that significantly reduced operational overhead.
- Designed and implemented standardized workflows for manufacturing processes, including automated quality checks and real-time progress tracking, resulting in 15% faster production cycles and 20% reduction in return rates.
- Conducted regular process review workshops with stakeholders from manufacturing, quality control, and management teams to identify bottlenecks and implement targeted improvements.

Co-Founder, Chaaba

Full-time, July 2015 - Feb 2016

- Launched a subscription-based food delivery startup catering to university students.
- Designed and developed a web application to streamline meal subscription management and delivery operations.
- Conducted customer surveys and gathered feedback to refine the product offering.
- Spearheaded marketing efforts within universities, including a university ambassador program to boost brand awareness and customer acquisition.

Education

2021 - 2025, Saarland University

MS Media Informatics, Germany

2013 - 2018, Bahauddin Zakariya University

BS Computer Science, Pakistan

Certifications

Foundations of Project Management Google, DFKI

Data Analysis on the SAP Business Technology Platform

Projects

Master's Thesis: Attachment Style Classification via Facial Feature Analysis Using Transformers, Saarland University

Tech stack: Python, PyTorch, OpenCV, NumPy, Pandas, Matplotlib

- Developed an end-to-end ML pipeline for predicting attachment styles from multimodal video data using transformer models.
- Preprocessed and analyzed variable-length videos (20-60 seconds at 20 fps), using whisper, integrating temporal pooling and handling missing data via zeroed inputs and additional binary features.
- Implemented efficient data storage and processing pipeline handling 1M+ frames of video data.
- Incorporated audio features alongside video data to capture contextual and temporal dynamics, enabling holistic multimodal analysis.
- Leveraged NVIDIA A100 GPU and PyTorch in a containerized environment for model training and performance optimization.

Key Projects - kompletttrad.auto.check24.de

Tech stack: Vue.js, Symfony, Javascript, PHP, MySQL HTML, CSS

- **Event-Based Email Dispatch Microservice** Developed using Symfony and RabbitMQ, dispatching thousands of emails daily with improved consistency and reduced duplication.
- **Invoice Generation API** Built a RESTful API to generate on-demand invoices, integrating with external APIs and saving time for customers and support agents.
- **Return Label Automation** Created a Symfony-based microservice to automate return label requests, aligned with external provider specifications.
- **Frontend Development** Delivered modular, reusable, and reactive Vue.js components using the Composition API, improving maintainability and user experience.

LLM-Driven Emotional Attachment Analysis, *Saarland University*

Tech stack: Whisper, Python, FastAPI, OpenAI API

- Built an automated pipeline to extract transcripts from 72 participant videos containing responses to 36 predefined questions.
- Conducted a comparative study to evaluate the effectiveness of questions in attachment style assessment by prompting Large Language Models (Llama, ChatGPT) with Retrieval-Augmented Generation (RAG).
- Analyzed model responses and benchmarked them against expert opinions to identify key insights for improving assessment accuracy.

Interests

Professional

Startups, Product Design, Computer Vision & Video Analysis, Agentic Workflows, Medical/Healthcare AI Applications