

Asliddin Ergashev

Full Stack AI Engineer | AI Agents | LLM | ML

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EXPERIENCE

Full Stack AI Engineer — Working Student

Oct 2025 – Present

Trench Group · Bamberg, Germany

- Contributing to Sales AI / Specification Assistant, an internal LLM-powered document intelligence platform for transformer-related sales workflows.
- Build and maintain React/TypeScript features for document upload, preview, extraction review, comparison history, and request-offer analysis.
- Integrate FastAPI services for AI-assisted key extraction, product-type detection, document Q&A, and export to Excel/PDF.
- Use Docling and OCR technology for document parsing across PDF, Word, Excel, and PowerPoint; route AI tasks via LiteLLM with GPT-4.1, GPT-4.1-mini, and GPT-5 via Azure OpenAI.
- Handle batch processing and parallel API calls for large document sets (100–500 pages) using LangChain and structured output parsing.
- Maintain CI quality with Vite, Vitest, ESLint, Docker, and automated linting and type checking.

Software Engineer, Process Automation — Working Student

Mar 2024 – Mar 2025

Siemens Healthineers · Forchheim, Germany

- Automated generation of technical documents with complex diagrams using Markdown and UML (PlantUML).
- Evaluated and maintained documentation tooling; developed scripts for documentation generation.
- Maintained Azure DevOps pipelines and supported deployment workflows.

Software Engineer, DevOps — Working Student

Apr 2023 – Mar 2024

Brose Group · Bamberg, Germany

- Extended internal web tools using FastAPI (Python), Django, and PostgreSQL.
- Built analysis dashboards by connecting scripts to central log monitoring infrastructure.
- Maintained CI/CD pipelines, improved test coverage, implemented unit tests, and supported DevOps tasks.

Data Science / ML / AI Intern

Sep 2021 – Dec 2022

Mohirdev.uz · Remote

- Data analysis (NumPy, Pandas), visualisation (matplotlib, seaborn), ML and deep learning (scikit-learn, PyTorch, TensorFlow), and NLP.

PROJECTS

MeinHelfer — Personal Project

Next.js 15 · TypeScript · Tailwind CSS · FastAPI · Python · PostgreSQL · Docker

- Full-stack managed marketplace for booking trusted service providers (moving, cleaning, gardening).
- Async FastAPI backend with JWT authentication, PostgreSQL database, and Dockerized production deployment.

Gut Guardian — Team Project — University Course (Viatolea Challenge)

React Native · Expo · TypeScript · Tailwind CSS

- Gamified mobile app helping users identify and manage food intolerances through structured challenges, progress tracking, and habit loops over a 14-day programme.
- Responsible for backend logic and data layer: C# data models, JSON save/load, ProgressManager with event-driven architecture, and NavigationManager.

Local LLM Chat App — Personal Project

FastAPI · Python · Ollama · Mistral · HTML/CSS/JS

- Full-stack app enabling users to interact with a locally running LLM (Mistral/Phi via Ollama) through a web interface — no API keys or cloud required.
- FastAPI backend handles prompt forwarding; vanilla JS frontend sends requests and renders responses in real time.

Jobwiese.com — Freelance Client Project

Next.js 16 · TypeScript · Tailwind CSS · Resend API · Netlify

- Bilingual (DE/EN) marketing website with locale-based routing and server-side transactional email delivery.

VEN-Marketing.com — Freelance Client Project

HTML5 · Vanilla CSS · JavaScript · PHP

- Zero-dependency single-page marketing site with animated canvas, live counters, scrolling ticker, and bilingual (DE/EN) toggle.

EDUCATION

M.Sc. Wirtschaftsinformatik (Information Systems)

2026 – Present

University of Bamberg · Germany

B.Sc. International Information Systems Management

2022 – 2026

University of Bamberg · Germany

RESEARCH

Human-AI Love Relationships — Seminar Research

2026

Otto-Friedrich-Universität Bamberg · Germany

- Conducted a Systematic Literature Review (SLR) on romantic and emotional relationships between humans and AI systems, applying Sternberg's Triangular Theory of Love as the theoretical lens.
- Analysed intimacy, passion, and commitment dimensions across human-AI interaction contexts; produced a research-in-progress paper, presentation, and structured speech script as final deliverables.

AI-Based Adaptive Learning Assistant — Bachelor Thesis

2026

Otto-Friedrich-Universität Bamberg · Germany

- Bachelor thesis proposing an AI-powered adaptive learning assistant for personalised university education, supervised by Prof. Dr. Milad Mirbabaie (Chair of AI Engineering in Companies).
- Applying Design Science Research (DSR) methodology with IT Identity Theory (Carter & Grover, 2015) as the theoretical lens; planned prototype stack: Next.js, FastAPI, PostgreSQL, Qdrant, and OpenAI GPT / Ollama.

TECHNICAL SKILLS

Programming Languages Python · Java · C · SQL · HTML/CSS

Frameworks & Tools Git · FastAPI · React · Next.js · TypeScript · Tailwind CSS · Jupyter Notebook · UML · Bash/Shell

AI & LLM LangChain · LiteLLM · Docling · OCR · Azure OpenAI · GPT-4.1 / GPT-4.1-mini / GPT-5 · Claude / Anthropic API · Ollama · Prompt Engineering

DevOps Docker · CI/CD Pipelines · Azure DevOps · Linux · Vite · Vitest · ESLint · Agile · Scrum

Other BPMN · Figma · PostgreSQL

LANGUAGES

Uzbek (Native) · German (C1) · English (B2) · Russian (B2) · Turkish (B1)