Wolfgang Dafert

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Education

University of Vienna & University of Braunschweig   **Germany**
Master's Degree in Applied Psychology/Usability | Grade: 3.5   *1996 – 2003*

Work Experience

TSTPrep   **USA**
AI Consultant   *2024 – Present*

- Design and develop LLM-powered solutions for teacher support, automating tasks, and improving educational outcomes.
- Implemented prompt engineering and evaluation frameworks to enable rapid iteration, resulting in a 20% reduction in LLM development time.

Unison Media   **New York, NY, USA**
CTO   *2021 – 2023*

- Defined and implemented the technical vision and strategy for a New York-based media agency, overseeing the development and project management teams.
- Spearheaded the adoption of a Zoho intranet, SOPs, and training manuals to optimize staff efficiency, automate business processes, and streamline website development.
- Assisted the CEO and team with a successful migration to Zoho One.

Sea.earth   **Glasgow, UK**
CTO & Technical Lead   *2021 – 2022*

- Led technical research and development for a blockchain-based environmental startup.
- Researched and delivered feasibility reports on utilizing smartphones for environmental data collection, resulting in a successful $50,000 grant application.
- Designed an architecture for storing blockchain data in the InterPlanetary File System (IPFS) to enhance data security and accessibility.

Cekaso   **Hamburg, Germany**
Project Manager   *2019 – 2021*

- Managed a team of 5+ developers to build custom POS software solutions for a leading European furniture purchasing group.
- Played a key role in UI/UX design and client-facing project management, ensuring on-time and within-budget product delivery.

- Resulted in a 15% reduction in order processing time through software optimization.

Side Projects

⦿ AI-Powered Teacher Support Platform

- Developed an LLM-based tool that automates administrative and instructional tasks, receiving positive feedback from educators for its effectiveness.
- Utilized Python, FastAPI, and PostgreSQL for backend development, ensuring efficient data handling and API integration.

⦿ Environmental Data Collection Using Blockchain

- Created a blockchain-based solution for secure environmental data collection, recognized for its innovative use of IPFS architecture.
- Implemented using Python, with a focus on microservices architecture and Docker for deployment.

Achievements

- **LLM Development Optimization:** Achieved a 20% reduction in LLM development time through optimized prompt engineering strategies.
- **Successful Grant Application:** Secured a $50,000 grant for environmental data research at Sea.earth.

Certifications

- **DeepLearning.AI Certification:** Comprehensive course covering foundational deep learning concepts, including neural networks, CNNs, RNNs, and more.
- **AWS Machine Learning Specialty:** Certification validating expertise in implementing, deploying, and maintaining machine learning solutions on AWS.

Additional Skills

- Machine Learning with PyTorch
- Generative AI
- Web Development
- Full Stack Development
- Blockchain Technology
- Educational Technology
- Docker
- Java
- Git
- React
- SQL
- **Languages:** English (Fluent), German (Native), Portuguese (Beginner)