Sebastian Zok

Software Developer

Contact

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Skills

- TypeScript
- Python
- Design Thinking
- DevOps
- Cloud
- Artificial intelligence
- Presentation Skills
- Critical thinking
- Detail oriented

Languages

Deutsch - Muttersprache

Englisch - Sehr gute Kenntnisse

Spanisch - Grundkenntnisse

Summary

I am passionate about my broad range of interests, spanning cloud development, extended reality, blockchain, and artificial intelligence. With a bachelor's degree in computer science and a master's in entrepreneurship, I combine deep IT expertise with an entrepreneurial, solution-oriented mindset. My goal is to realize innovative and purpose-driven projects that create lasting value.

Work Experience

Chatbot Developer   09/2024 - 02/2025

Museful - Heilbronn

- Co-founder of an AI-based tour guide for cultural institutions.
- Conceptualization of a chatbot for the HHX in Stuttgart, including technical implementation and optimization.
- Participation in the startup incubator of Campus Founders and the HessianAI program.
- Technologies: Python, Firebase, Svelte, Pixi.js, Python, Yolov8, ChromaDB, OpenAI API, TypeScript, Azure, GCP

Blockchain-Developer   01/2023 - 09/2024

SAP Innovation Center Network - Walldorf

- Investigation of the use cases and challenges of decentralized identities in a corporate environment.
- Development and exemplary implementation of a solution as part of my bachelor's thesis, demonstrating practical applications and potential.
- Technologies: DIDComm, BTP, SAP Workflow Service, TypeScript, Ethereum, Web3

Data Analyst   07/2022 - 10/2022

SAP Integrated Business Planning for Supply Chain - Palo Alto, USA

- International Practical Phase in Silicon Valley
- Conceptualization and development of a Proof of Concept (PoC) for analyzing supply chain data
- Technologies: React, Vis.js, Docker, Neo4j, Cypher, Graph Data Science, TypeScript, Axios

DevOps-Engineer   01/2022 - 03/2022

S4/HANA for procurement planning - Walldorf

- Development of a bot for ensuring software quality within a CI/CD pipeline.
- Technologies: Node.js, Jenkins, Piper, Octokit, SAP UI5, JEST, Docker, Vyper, Artifactory, GitHub API

Frontend Developer   09/2021 - 10/2021

SAP Analytics Cloud, DE - Walldorf

- Development of a frontend component in production code.
- Technologies: React, TypeScript, Jira, Scrum, Gerrit

Backend Developer Node.js   11/2020 - 01/2021

Industry 4.0 & Digital Supply Chain Innovation - Walldorf

- Development of a backend for the simulation of warehouse robots.
- Technologies: Node.js, TypeScript, Kubernetes, Docker, OData, Google Cloud Platform, Helm, Git, Scrum, TravisCI, Unit Testing

Education

Master of Science Entrepreneurship   2025

Heilbronn University Graduate School - Heilbronn

Final thesis: Leveraging Context-Aware Consistency in Diffusion-Transformers for AI-based Animations Expected graduation with excellent results (1.2)

Bachelor of Science Computer Science   2023

Duale Hochschule Baden Württemberg - Karlsruhe

 In cooperation with SAP SE

Final thesis: Conception of a blockchain based and privacy-preserving crosscompany workflow service

Overall Grade: 1.7

General Higher Education "Abitur"   2020

Christian Schmidt Schule - Neckarsulm

Profile: Technology and Management

Overall Grade: 1.5

Projects

Development of an AI-based Video Generation Tool

- Technologies: Python, Diffusers, Remotion, Torch, AWS Lambda, TypeScript, React, 11Labs, Firebase, FLUX, RunPod.io

Decentralized Crowdfunding Platform as Part of a Study Project

- Technologies: React, Solidity, MetaMask, Web3.js, Ethereum

Virtual Reality Game in Collaboration with the Karlsruhe University of Music

- Technologies: Unity-XR, C#, Meta Quest 2

Advanced Knowledge in AI-based Image Generation

- Technologies: ComfyUI, Python, Diffusers, IPAdapter, ControlNets, I2I, Automatic1111

Advanced Knowledge in Microelectronics from Various Projects

- Technologies: ESP32, Arduino, 3D Printing, RFID, Computer Vision

Cross-Platform App Development

- Technologies: Capacitor, Cordova, TypeScript, Firebase, Android Studio