



KILIAN SCHÜTTLER

AI Software Engineer

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PROFILE

Driven to transform AI innovations into accessible and effective software solutions, with a strong commitment to clean code standards and best practices. Passionate about staying at the forefront of machine learning by continuously engaging with the latest research.

SOCIALS

@TheMarmelator



PROJECTS

PDF Forge
Low-level PDF inspection and debugging tool. Written in TS and JS, while using svelte and pdf.js.

SKILLS

Java	<div></div>
Python	<div></div>
Spring (Boot)	<div></div>
Git	<div></div>
TypeScript	<div></div>
JavaScript	<div></div>
Svelte	<div></div>
Angular	<div></div>
TensorFlow	<div></div>
Rust	<div></div>
PyTorch	<div></div>
C/C++	<div></div>

Azure IDP, CosmosDB, Azure Blob Storage, Bash, Docker, Kubernetes, helm, Leptonica, Tesseract, Ghostscript, PDFTron Apache PDFBox, pdf-rs, pdf.js, PdfPig, OpenCV, FEniCS, preCICE, Redis, PostgreSQL, MongoDB, Elasticsearch, OpenSearch, RabbitMQ, S3, Jira, Confluence, Liquibase, Tailwind, CSS, HTML

LANGUAGES

German	<div></div>
English	<div></div>

EXPERIENCE



SOFTWARE ENGINEER
knecon Technologie GmbH

January 2023 - present

Mannheim, Germany

Developed an AI-powered PDF document analysis platform as a SaaS with a small team

Collaborated with the research division to extend the platform with a RAG-based document dataset exploration feature.

Deployed containerized applications using Docker, Kubernetes, Helm, and Rancher, while working with and refining CI/CD pipelines with GitLab.

Took part in hiring several colleagues.

Key projects I architected and led:

Cloud-ready document data-structure used for representation and analysis.

OCR-services for on-premise and cloud use, using leptonica and ghostscript for image processing and Tesseract/Azure IDP/Prpyse OCR as Engines.

Main analysis service using the drools rule engine featuring hot-swappable rule sets.

Custom PDF layout-parsing service using a mix of algorithms and ML.

LLM-Based rule writing copilot.

LLM-Based NER service supporting the rule engine.



NASA HeroX Challenger

March - December 2020

KSat Stuttgart e.V. www.herox.com/NASApayload

Stuttgart, Germany

Advanced to final round and placed 2nd out of 168 Teams.

I designed stereomatching and image processing on an FPGA processor for mineral detection.

SOFTWARE ENGINEER (Working Student)

April 2019 - July 2022

Eckert&Partner IT Consulting

Stuttgart, Germany

Collaborated with local and remote teams to build rental asset management web applications for Mateco GmbH using Spring Boot and Angular frameworks.

Designed and implemented new management tools at Eckert & Partner IT Consulting.

IT Admin (Working Student)

April 2018 - April 2019

BBPlatforms IT Solutions

Stuttgart, Germany

Maintained IT Infrastructure for wulf architekten gmbh.

EDUCATION

B.Sc. Computer Science University of Stuttgart

2022

Thesis Investigation of self-learned zeroth-order optimization algorithms

Abitur Karl Friedrich Gymnasium, Mannheim

2016

HOBBIES



American Football

German national U19 team, 2nd place European Championships 2015
Former team captain at Stuttgart Scorpions GFL team



Piano



Ableton



Climbing