

# Julian von der Goltz

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## Contact Details:

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ML systems architect specializing in end-to-end machine learning and deep learning solution development. I build reliable, production-grade systems from concept to deployment with a focus on computer vision and LLM applications. My combined background in aerospace engineering and practical AI implementation allows me to bridge theoretical possibilities with business realities.

## Technical

### Competencies

**Software Engineering:** Python, TypeScript/JavaScript, NodeJS, ExpressJS  
Git, PostgreSQL, CI/CD, Docker, Kubernetes, Terraform, GCP, AWS, Azure, Scrum/Agile

**Data & AI:** PyTorch, TensorFlow, NLP, Generative AI (LLMs), RAG Systems, Model Development/Training/Evaluation, Production Deployment, MLOps

**Computer Vision:** Image Classification, Object Detection, 3D Vision, OpenCV

## Experience

### KickstartAI

#### Machine Learning Engineer, 2025 - present

Consultancy role in a non-profit helping community efforts and industry partners (ING, KLM, Ahold Delhaize, NS) adopt AI. Projects: retrieval-augmented financial-health chatbot; hospital wound-reporting tool.

### VDG Engineering & Technology

#### Self-employed (ZZP), 2022 - 2025

Built multiple AI-powered products with a "ship yesterday" mindset: LLM fine-tuning (Mistral-7B on historical Dutch literature); RAG search for space standards; news clustering with LLM summarization; LLM-based web-crawl agent for personalized search.

### Mainblades Inspections

#### Lead Engineer, Vision & AI, 2018 - 2025

Led development and business implementation of AI solutions; acted as multi-disciplinary system architect reducing aircraft inspection time from eight hours to 20 minutes. Built partnerships with Delta Air Lines, Blue Origin, Lufthansa, and KLM.

**Highlights:** PyTorch damage-detection models; in-house ML stack (Airflow, Docker, Seldon Core); backend contributions (NodeJS/ExpressJS); scalable architecture on GCP/Kubernetes.

## Education

### Delft University of Technology

#### MSc. Systems and Control (cum laude), 2016 - 2019

Thesis: "*Classification of Damages on Aircraft Inspection Images Using CNNs*"

#### BSc. Aerospace Engineering (cum laude), 2012 - 2016

## Languages

**Dutch** (Fluent), **English** (Fluent), **German** (Native)