Alex Berndt

Software Engineer

Dedicated and passionate software engineer with a strong research background in ML, algorithms and control theory.

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github.com/alexberndt

EXPERIENCE

Software Engineer: Data Platform Lead
Overstory

02/2022 - Present   *Amsterdam, The Netherlands*

Notable Projects
- Lead development of orchestrated pipelines for satellite imagery processing and indexing
- Lead design and implementation of algorithm-in-the-loop labeling tool for geospatial segmentation and image co-registration

ML Engineer
Dashmote

04/2021 - 01/2022   *Amsterdam, The Netherlands*

Notable Projects
- Designed and implemented NLP models for entity resolution
- Designed and implemented a labeling tool for NLP training

Researcher
KTH Royal Institute of Technology

05/2020 - 04/2021   *Stockholm, Sweden*

Focus
- Researched ML-based anomaly detection schemes for cyber-security algorithms controlling large scale infrastructure

Algorithms Engineer
Vehicle Dynamics Group

01/2017 - 08/2017   *Pretoria, South Africa*

Notable Projects
- Developed collision avoidance systems for mining vehicles for the MHSC
- Researched and implemented ABS algorithms specially for off-road use

EDUCATION

MSc Systems and Control
Specialization in Algorithms and Machine Learning

Delft, The Netherlands
Delft University of Technology

GPA 9.5/10
- Machine-learning, time-series analysis, optimization, system modelling
- Thesis project at Robert Bosch GmbH, Renningen, Germany

Undergraduate Researcher
MIT AeroAstro Agile Drones Laboratory

Cambridge, MA, USA

TECHNOLOGIES

DVC   Airflow

Google Cloud Platform   Git   MLFlow

Dagster   AWS   Github Actions CI/CD

PROJECTS

Tracker of ISS using Vue.js and NASA API
- https://iss-tracker.alexberndt.com/

COMMUNITY INVOLVEMENT

Sea Scouts (2008 - 2012)
Patrol leader

Reach out and Give Charity (2014 - 2016)
Member

TOOLCHAIN

Python, PyTorch, Docker, FastAPI, Jupyter
Advanced

Kubernetes, Terraform, React.js, Node.js
Intermediate

LANGUAGES

English, Dutch
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French
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German
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Swedish
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INTERESTS

Cycling   Piano   Mountain biking