

Çağatay Tanyıldız

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Amsterdam, NL

ABOUT

I am an MLOps & Backend Engineer with extensive experience in deploying, optimizing, and automating machine learning workflows at scale. My expertise includes Kubernetes, AWS, CI/CD for ML, and Python-based automation. I specialize in building scalable, high-performance backend solutions, streamlining MLOps infrastructure, and reducing operational overhead through automation. Passionate about cloud-native architectures and DevOps best practices, I thrive in dynamic environments where I can drive efficiency and innovation.

EXPERIENCE

• Protolabs

Amsterdam, NL

Nov 2021 - Present

MLOps & Backend Engineer

- Designed and deployed **scalable ML workflows**, reducing manual interventions by ~25% using Kubernetes, RabbitMQ, and Celery.
- Developed a **Python-based automation framework**, reducing compliance-related process response times **from hours to seconds**, improving operational efficiency by ~80%.
- Implemented **Datadog monitoring & logging** pipelines, reducing response times and improving system observability.
- Maintained and optimized a **containerized microservices architecture** for real-time ML task orchestration.
- Key Technologies:** Python, AWS, Kubernetes, CI/CD, RabbitMQ, Celery, Datadog, Knative, Docker, Flask

• Nokia

Istanbul, TR

Aug 2019 - Oct 2021

Backend Engineer

- Built and optimized a **document automation system**, enhancing document processing efficiency and reducing manual workload.
- Led and conducted **5+ internal workshops** on Python programming, Git version control, and software engineering best practices.
- Contributed to **network automation initiatives**, reducing configuration creation time by ~50% via automated workflows.
- Key Technologies:** Python, Linux, Docker, Flask, React.js, Ansible, Git

• Huawei

Istanbul, TR

May 2018 - July 2019

Backend Engineer

- Developed **microservices** for NLP applications, specializing in **word-embedding similarity detection and RDF graph manipulations**.
- Automated **upgrade/downgrade procedures** for a web server project, leading to the team winning the **Quality Star 2018 award**.
- Key Technologies:** Python, Linux, Docker, Flask, JavaScript, pandas, PHP, TCL

• IBM

Istanbul, TR

Sep 2017 - May 2018

Cloud Developer Advocate

- Developed **multiple proof-of-concept applications** on IBM Cloud using Python and JavaScript.
- Authored **technical guides** and represented the team at **San Francisco Index Developer Conference**.
- Key Technologies:** IBM Cloud, Python, JavaScript, Node-RED

EDUCATION

• Lodz University of Technology

Lodz, PL

Jul 2017 - Aug 2017

Software Engineer Intern

• Yildiz Technical University

Istanbul, TR

Sep 2013 - Jun. 2017

Bachelor Programme in Computer Engineering