

Mateusz Idziejczak

AI/ML Principal Software Engineer

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SUMMARY

Highly accomplished AI/ML Principal Software Engineer with over 7 years of progressive experience, including 5 years at Google, specializing in designing, developing, and deploying scalable, production-grade machine learning solutions. Proficient in MLOps, cloud-native architectures on AWS, containerization with Docker and Kubernetes, and building robust backend systems with Python, Java, and Node.js. Adept at transforming experimental ML prototypes into high-performance, maintainable applications and leading architectural decisions. Proven ability to drive significant improvements in system performance, reliability, and cost-efficiency. Seeking to leverage deep expertise in AI and software engineering to drive innovation in the medical industry.

EXPERIENCE

Senior AI/ML Software Engineer

Google

2019 – 2024

- Led the full lifecycle development of core machine learning features, from prototype to production deployment, within a large-scale enterprise environment.
- Engineered and deployed highly scalable MLOps pipelines utilizing Python, TensorFlow/PyTorch, Docker, and Kubernetes on cloud platforms (GCP and AWS). Integrated robust CI/CD practices (e.g., Jenkins, GitLab CI) to automate testing and deployment, accelerating the release cadence of new ML models by 30%.
- Provided significant architectural contributions for high-performance, cloud-native AI solutions supporting millions of users globally. Developed and maintained critical backend services in Python (Django/Flask) and Node.js, enhancing system throughput by 40% and maintaining 99.99% availability.
- Collaborated closely with data scientists, ML researchers, and product teams to translate complex AI research into production-grade applications. Established best practices for automated testing, continuous integration, and comprehensive system observability (Prometheus, Grafana), reducing time-to-market for new AI-powered features by 20%.

PROJECTS

TaxGPT: AI-Powered Tax Declaration System

Personal Project (2023-Present)

- Developed an intelligent, automated system to accurately prepare and file personal tax declarations, addressing the challenge of time-consuming manual processes.
- Designed and implemented a full-stack application utilizing Python for backend logic and ML models (NLP for document parsing, data extraction), with a user-friendly frontend developed in Angular.
- Deployed the solution on AWS, leveraging services like EC2, S3, and Lambda for scalable and secure operation. Successfully automated personal tax filing, reducing the typical declaration time from several hours to under 30 minutes and minimizing manual errors.

TECHNICAL SKILLS

Programming Languages

Python (Advanced)

Java (Advanced)

Node.js (Advanced)

Golang (Advanced)

Frameworks & Libraries

Spring Boot

Django

Flask

React

Angular

TensorFlow

PyTorch

scikit-learn

Cloud Platforms & Services

AWS (Advanced)

Google Cloud Platform (GCP)

EC2

S3

Lambda

SageMaker

CloudWatch

VPC

Containerization & Orchestration

Docker (Advanced)

Kubernetes (Advanced)

DevOps & CI/CD

CI/CD (Advanced)

Git

Jenkins

GitLab CI

Automated Testing

System Observability (Prometheus

Grafana)

Machine Learning & AI

Deep Learning

Natural Language Processing (NLP)

MLOps

Model Deployment

AI/ML System Design

Scalable ML Architectures

Databases

SQL

NoSQL

Methodologies

EDUCATION & QUALIFICATIONS

Master of Science in Artificial Intelligence, Poznan University of Technology - 2012 – 2017

Awards

- Nobel prize

Languages

- **English:** Fluent (B2)
- **Polish:** Native