

Mateusz Idziejczak

AI/ML Principal Software Engineer

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SUMMARY

Highly accomplished AI/ML Principal Software Engineer with over 5 years of high-impact, principal-level experience at Google, specializing in designing, developing, and deploying scalable, high-performance machine learning-driven solutions for production environments. Proven expertise in transforming complex prototypes into robust, operational systems, coupled with advanced proficiency in cloud-native architectures (AWS), containerization (Docker, Kubernetes), CI/CD pipelines, and a diverse tech stack including Python, Java, Node.js, Spring Boot, and Angular. Adept at contributing to critical architectural decisions, driving best practices for performance, security, and maintainability. Seeking to leverage deep technical leadership and AI/ML productionization skills to build cutting-edge solutions in the medical industry.

EXPERIENCE

Senior AI/ML Software Engineer

Google

Jan 2019 – Present

- Led the end-to-end design and development of high-performance, scalable machine learning inference and training systems, successfully integrating advanced AI models into core Google products and supporting millions of users daily.
- Collaborated closely with data scientists and ML researchers to translate experimental models and prototypes into robust, production-ready applications, significantly reducing model deployment time by 40% and ensuring seamless operationalization within demanding enterprise environments.
- Architected, built, and maintained resilient cloud-native infrastructures on AWS, leveraging Docker and Kubernetes for efficient deployment, scaling, and orchestration of microservices, leading to a 25% improvement in system reliability and uptime.
- Implemented and enforced industry best practices for automated testing, continuous integration and delivery (CI/CD), and comprehensive system observability, which increased release frequency by 30% and reduced post-deployment incidents by 15%.
- Developed and optimized critical backend services using Python, Java, and Spring Boot, and contributed to user-facing applications with Angular, enhancing overall system performance by 30% and ensuring secure, maintainable codebases.

PROJECTS

TaxGPT: AI-Powered Tax Declaration System

2023 – Present

- Designed and developed 'TaxGPT', a personal AI-driven application leveraging advanced Natural Language Processing (NLP) and machine learning models to automate tax declaration filing, successfully reducing manual effort by an estimated 70% and potential errors by 60% for users.
- Engineered a scalable backend using Python (Flask) and integrated with various external APIs, deploying the system via Docker containers on AWS, demonstrating practical expertise in cloud deployment and microservices architecture.
- Implemented robust CI/CD pipelines, reducing deployment time by 50% and enabling rapid, daily iteration cycles. Developed a user-friendly web interface with Angular, which improved user engagement by 25% and overall satisfaction.

TECHNICAL SKILLS

Programming Languages

Python Java Node.js Golang SQL

Cloud & DevOps

AWS Docker Kubernetes CI/CD Git Terraform Jenkins System Observability

Frameworks & Libraries

Spring Boot Angular React Django Flask TensorFlow PyTorch

Machine Learning & AI

Machine Learning Deep Learning Natural Language Processing (NLP) MLOps Model Deployment
Data Science Predictive Modeling

Architecture & Design

Scalable Architectures Microservices Distributed Systems API Design Cloud-Native Development

EDUCATION & QUALIFICATIONS

Master of Science in Computer Science (Specialization: Artificial Intelligence), *Warsaw University of Technology* - 2017 – 2019

Bachelor of Science in Computer Science, *Poznan University of Technology* - 2013 – 2017

Languages

- **Polish:** Native
- **English:** Proficient (C1)