

jakubjantosik

Lead Development/Cloud Engineer

about

Eindhoven
Netherlands

jakub.jantosik@gmail.com

languages

Proficient in English
Basic German

programming

Python
JavaScript, TypeScript
(ECMAScript, node.js)
React, Vue
C, Rust, Golang
Vulkan

devops

Terraform, Serverless,
Ansible
Codebuild &
Codepipeline, Github
Actions, Gitlab
Pipelines
Docker, Kubernetes
MLOps

interests

travelling, programming in general, web development, computer graphics, computer vision, fitness, tennis, game development, Linux, web design

education and certificates

2017	AWS Certified Developer – Associate Amazon certification	Amazon Web Services
2017	Programming in HTML5 with JavaScript and CSS3 Exam 480, Microsoft certification	Microsoft
2014-2016	Mgr. - Applied Informatics Thesis: Robot Karel (Javascript interpreter)	Faculty of Mathematics, Physics and Informatics
2011-2014	Bc. - Applied Informatics Thesis: Vector editor for lower secondary school	Faculty of Mathematics, Physics and Informatics
2011	National comparative exams NSZ Mathematics	SCIO
2008	First Certificate of English Cambridge ESOL Level 1 Certificate	University of Cambridge - ESOL Examinations
2003-2011	University preparation	Gymnázium Bilíkova

experience

Signify - Lead Development/Cloud Engineer

- Since May 2021
- Owned the end-to-end process from architectural design and Change Request creation to the implementation
- Lead a Cloud Guild, fostering a culture of continuous learning and cloud innovation within the company
- Designed and implemented a highly available and scalable architecture using AWS services, including ECS (Fargate), Lambda, ElastiCache, Elastic Beanstalk, DynamoDB, MemoryDB
- Worked with LLMs, including prompt engineering and building a prompt evaluation solution
- Integrated OpenTelemetry for enhanced observability and tracing of microservices
- Lead an effort in developing and deploying the application using DevOps best practices, including continuous integration and delivery, infrastructure as code, and monitoring and alerting
- Reduced costs by optimizing the AWS infrastructure and implementing serverless practices for non-production environments

- Mentored junior engineers and provided technical guidance on best practices for software development
- Improved legacy solutions by adding unit tests, linting and automation scripts using Terraform, Docker, Bash and Python to streamline the deployment process
- Participated in MLOps workshop using Sagemaker

IKEA - Full Stack/Cloud Engineer

- 2020-2021
- Developed the new generation kitchen planner
- Designed microservices with serverless architecture to achieve robust systems
- Developed a stable and performant furniture management portal and the 3D kitchen planner using modern frontend/3D frameworks - React, 3dvia
- Worked with: React, AWS, DynamoDB, MySQL, Neptune (graph database), Lambda, Serverless, Serverless Framework, NodeJS, JavaScript, CI/CD (CodeBuild, Bitbucket pipelines), Microservice, Serverless Architecture, TDD (Test-driven development)
- Creation of reusable node modules
- Delivered working prototypes and proof-of-concepts

Philips - Cloud Engineer

- 2017-2020
- Developed new generation HealthSuite platforms
- Designed microservices with serverless architecture to achieve robust systems
- Worked with: AWS, Linux, DynamoDB, Lambda, CloudFormation, Serverless, Serverless Framework, NodeJS, JavaScript, TypeScript, JMeter, Jenkins, CI/CD, Microservice, Serverless Architecture, TDD (Test-driven development)
- Fully automated build pipeline process maintaining security and HIPAA, GDPR compliances
- Heavy focus on IoT and RESTful APIs, infrastructure and simple deployment
- Creation of reusable node modules
- Delivered working prototypes and proof-of-concepts

Accenture - Software Engineer

- 2016-2021
- Worked on prototypes using Tensorflow, React, Angular 2

personal projects

Real-Time Collaborative Code Interview Platform

- Work in progress
- Developing a web application enabling real-time collaborative coding interviews using Conflict-free Replicated Data Types (CRDTs) for synchronized editing
- Implemented real-time code synchronization using CRDT library Yjs allowing interviewers to create and share programming tasks directly in the platform
- Containerized and deployed the application using Kubernetes for scalable and reliable infrastructure

- Technologies: CRDT, Kubernetes, Real-time Collaboration, Svelte, NodeJS

Aquiche - Async Python Caching Library

- Developed a high-performance Python package providing robust async caching with comprehensive features
- Implemented thread-safe and async-compatible caching mechanism supporting both sync and async functions
- Prevented cache stampede through intelligent request coalescing
- Key Features:
 - Flexible expiration strategies
 - Negative caching support
 - Full type annotations
 - High test coverage
- Designed for scalable and efficient caching in complex application architectures
- Technologies: Python, Poetry

Distinguishing Paintings From Photographs

- Using multiple features application differentiates the images of real scenes from the paintings
- Option to train the classifier with the custom database of images
- Implementation is based on paper written by Florin Cutzu, Riad Hammoud, Alex Leyk
- Technologies: Matlab