

# jakubjantosik

software engineer

## about

Eindhoven  
Netherlands

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## languages

Proficient in English  
Basic German

## programming

JavaScript, TypeScript  
(ECMAScript, node.js)  
React, Vue 2  
C, Rust, Java  
Vulkan

## interests

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

## education and certificates

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

## experience

### IKEA - Full Stack Software Engineer

- Since April 2020
- Develop the new generation kitchen planner
- Design microservices with serverless architecture to achieve robust systems
- Develop a stable and performant furniture management portal and the 3D kitchen planner using modern frontend/3D frameworks - React, 3dvia
- Working 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
- Delivering working prototypes and proof-of-concepts

### Philips - Software Engineer

- 2017-2020
- Develop new generation HealthSuite platforms
- Design microservices with serverless architecture to achieve robust systems

- Working with: AWS, Linux, DynamoDB, Lambda, CloudFormation, Serverless, Serverless Framework, NodeJS, JavaScript, TypeScript, JMeter, Jenkins, CI/CD, Microservice, Serverless Architecture, TDD (Test-driven development)
- Fully automating 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
- Delivering working prototypes and proof-of-concepts

#### **Accenture - Software Engineer**

- Since 2016
- Working on prototypes using Tensorflow, React, Angular 2

## **personal projects**

#### **JVec**

- web vector graphics editor
- used technologies: JavaScript, jQuery, PHP, Bootstrap 3, Google Fonts API

#### **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
- used technologies: Matlab

#### **Robot Karel**

- educational programming environment
- user creates programs that control the robot by manipulating the puzzle-like blocks
- the blocks are translated into JavaScript which is interpreted by my own sandboxed interpreter
- used technologies: WebGL, JavaScript, jQuery, PHP