# Ivan Gushchin

*design*
*implementation*
*optimisation*

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## WORK EXPERIENCE

AUG 2019 – PRESENT

**Java Backend Developer**, Berlin (remote)
*Stepstone GmbH*

- Running, maintaining and developing job-, geo-search engines deployed on AWS as distributed systems and used as a service by multiple companies over the world (Java/Python/Elasticsearch/Lucene).

- Developed highly scalable and highly available CV Indexing Pipeline using AWS services (Java/AWS/Terraform).

- Developed REST search endpoint returning geo information (lat/long/city/...) based on the provided address (Java).

- Migrated multiple standalone services from running on dedicated servers to running on cloud (Java / AWS(EC2/Lambda/S3/SQS/...))

- Created POC by training TF-Ranking model and replacing with it default BM25 ranking algorithm inside job search engine (Java/Python/Elasticsearch).

- Refactored regression test framework: it improved usability and reduced testing time (Java) .

- Imroved platform (used by multiple teams) for general and efficient communication with AWS services (Java).

APR 2016 – JUL 2019 (full-time)
FEB 2015 – FEB 2016 (part-time)

**Software Developer**, Neumuenster
*Panasonic Automotive & Industrial Systems Europe GmbH*

- Built app used to synchronously map and display audio signal (received from car radio receivers) to receiver's quality debug information. It allowed to automate the detection of the correlation between radio reception quality and output audio signal (C++/Python/Java).

- Built app used to extract and search debug information from log binary files generated by car multimedia systems (C++/Python).

- Developed various components and algorithms for highly optimized core AMFM/HD radio software for car multimedia systems, as well as various software used for car system's analysis, test automation and other tasks (C/C++/Python/Java).

- Tested embedded and application software on field (US/EU).

JUL 2014 – FEB 2015 (part time)

**Student research assistant**, Kiel
*Fachhochschule Kiel*

- Increased performance by more than 30% of core component for fish recognition app by parallelization of Generalized Hough Transform (GHT) algorithm with CUDA.

DEC 2012 – MAR 2013

**Software Developer**, Nowokuznetsk, Russia
*Regional training center of Evraz-Siberia*

- Participated in design and development from scratch of 3D training simulator for conveyor belt operators (C#/Unity3d).

## EDUCATION

| | |
|---|---|
| Oct 2013 – March 2016 | **Master of Science** INFORMATION TECHNOLOGY *Fachhochschule Kiel, Germany* |
| Sep 2008 – Jun 2013 | **Specialist** INFORMATION SYSTEMS AND TECHNOLOGIES *Siberian State Industrial University, Russia* |

## SKILLS & PROFICIENCY

Strong: Java, Python, Main OOP Patterns, Main algorithms and data sctructures, Main Devops principles.

## LANGUAGE SKILLS

| | |
|---|---|
| RUSSIAN | Native proficiency |
| ENGLISH | Fluent proficiency |
| GERMAN | Good proficiency |

## CERTIFICATES



**AWS Developer Associate**
Score: 937/1000

Validation Number:
EVTTTGKB2NFQQW5