Grzegorz Szpak

gszpak01@gmail.com (0048) 793-776-681

www.linkedin.com/in/grzegorz-szpak-855245b9

EDUCATION

Master of Science, Computer Science October 2014 - December 2016 University of Warsaw, Faculty of Mathematics, Informatics and Mechanics

Bachelor of Science, Mathematics October

October 2014 - September 2016

University of Warsaw, Faculty of Mathematics, Informatics and Mechanics

Double Degree Program in Computer Science October 2011 - July 2014 and Mathematics (first cycle)

University of Warsaw, Faculty of Mathematics, Informatics and Mechanics

• Bachelor of Science, Computer Science

July 2014

EXPERIENCE

Software Engineer

November 2017 - April 2019

PageBites, Inc. (d.b.a. imo.im) Palo Alto, California, USA

- Part of a small team developing a highly distributed, scalable backend for a mobile messaging app, processing 150B requests per day from 200M monthly active users
- Designing and implementing fully asynchronous, efficient microservices in Java and Python
- Playing key role in design and implementation of architecture changes needed for splitting userbase into two data centers
- Implementing auto-reconnecting wrapper for asynchronous Redis client in Java
- Maintaining a Cassandra cluster of 500+ nodes
- Troubleshooting bottlenecks and memory leaks in microservices; tuning GC options for some critical microservices
- Working on migration from Cloudera CDH version 5 to 6 (Hadoop and Kafka)
- Technology stack: Java, Netty, Python, Redis, Cassandra, LevelDB, Zookeeper, Hadoop, Kafka, Puppet, Grafana, HBase, OpenTSDB, AWS S3

Big Data Engineer / Data Scientist

January 2017 - October 2017

Growbots, Inc. $\,$

Warsaw, Poland

- Developing and maintaining the main ETL pipeline for Growbots sales automation product using Dataproc, Spark, Python and Airflow
- Developing machine learning models for improving quality of data
- Helping other engineers debug and optimize Spark jobs
- Technology stack: Python (incl. ML stack), Spark, Airflow, GCP (Dataproc, BigQuery, Cloud Storage), PostgreSQL, Elasticsearch, Docker, Flask, Celery

Software Engineer

January 2016 - December 2016

DaftCode sp. z o.o.

Warsaw, Poland

- Developing a real-time bidding platform
- Building various machine learning models for predicting click-through rate in online advertising

- Implementing a bidder service using ML models and pricing strategies to return bid price for a given bid request
- Technology stack: Python, xgboost, scikit-learn, pandas, numpy, C++, RTBkit, PostgreSQL, Redis, Tornado, Pyramid, SQLAlchemy, Docker, Graphite

Software Engineering Intern

September 2015 - December 2015

PageBites, Inc. (d.b.a. imo.im) Palo Alto, California, USA

- Implementing a service for performing scalable and fault-tolerant data migrations between sharded databases (Redis and MySQL)
- Detecting unwanted activities in a social network
- Technology stack: Python, Java, Redis, MySQL, LevelDB, Zookeeper, Grafana

Software Engineer

October 2013 - September 2014

Lex43 Sp. z o.o. (d.b.a. SzybkaPapuga.pl)

Warsaw, Poland

- \bullet Creating web applications using Pyramid, SQLAlchemy and Ember.js
- Optimizing web server
- Part-time job

Java Developer Intern

August 2013 - September 2013

Computer Networks Department, University of Warsaw Warsaw, Poland

• Creating web applications using Seam, Hibernate, Maven, TestNG and Mockito

TECHNICAL SKILLS

Operating Systems: Unix

Programming languages: Java, Python, Scala, C++, C, SQL

Data stores: Redis, Cassandra, PostgreSQL, MySQL, LevelDB, Zookeeper, HBase (basics), Elasticsearch (basics)

Frameworks & libraries: Spark, Kafka, Hadoop, Airflow, Netty, Python ML stack, Celery, Tornado, Flask, SQLAlchemy

Tools: Docker, Puppet, Git, Mercurial

Other: Distributed systems, microservices, machine learning, big data processing, OOP, algorithms, solid mathematical background, asynchronous programming, basics of reactive programming

AWARDS

Finalist of LXII Polish Mathematical Olympiad

2011

Finalist of LXI Polish Mathematical Olympiad

2010

COURSES

Big Data Analysis with Scala and Spark

August 2019

Coursera - École Polytechnique Fédérale de Lausanne

${\bf Functional}_{\cdot} {\bf Programming} \ {\bf Principles} \ {\bf in} \ {\bf Scala}$

August 2019

Coursera - École Polytechnique Fédérale de Lausanne