

Grzegorz Szpak

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EDUCATION

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

Bachelor of Science, Mathematics October 2014 - September 2016
University of Warsaw, Faculty of Mathematics, Informatics and Mechanics

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

- 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, asynchronous programming, basics of reactive programming, machine learning, big data processing, OOP, algorithms, solid mathematical background

COURSES

Big Data Analysis with Scala and Spark August 2019
 École Polytechnique Fédérale de Lausanne on Coursera

Functional Programming Principles in Scala August 2019
 École Polytechnique Fédérale de Lausanne on Coursera

AWARDS

Finalist of LXII Polish Mathematical Olympiad 2011
 Finalist of LXI Polish Mathematical Olympiad 2010