

Emil Kleszcz

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WORK EXPERIENCE

- 04.2018-NOW **Big Data Engineer at CERN**, Geneva
- Implemented module for automatic distribution of Hadoop, Spark and HBase configuration to hundreds of clients.
 - Performed major upgrade from Hadoop 2 to Hadoop 3 stack on mission-critical clusters.
 - Participated in the cyclical administration of 6 production clusters with roughly 200 nodes and 10+PBs of data.
 - Developed Hadoop Web Service with REST API (full stack) mainly for HDFS quota management.
 - Enhanced monitoring and security of the service, among others, by defining firewall rules in Puppet.
 - Also, supervised students in their research projects and delivered Big Data trainings for the CERN community.
 - Technologies: Hadoop, Spark, Kafka, Java, Python, Spring Boot, Node.js, Bash Script, CentOS 7, Puppet, Gitlab CI/CD, HBase, Presto, Phoenix, Zookeeper, Jupyter, Flume, Collectd, Grafana, OpenStack, OpenShift, Hive
- 10.2016-07.2017 **Software Developer at CERN**, Geneva
- Developed various scalable web applications based on Enterprise Asset Management system [Infor EAM](#).
 - Reduced Infor Web API invoked time at least twice by implementing custom native SQL queries with JPA.
 - Technologies: Java EE 6, PL/SQL, JPA, JavaScript, Primefaces 3, HTML5, CSS3
- 07.2016-09.2016 **Summer Engineering Internship at CERN**, Geneva
- Implemented Java Web Application based on OAuth 2.0 protocol.
 - Conducted comparative analysis of authentication protocols finalized with publications on the [\(IT/DB\)](#) blog.
- 11.2015-12.2015 **Student assistant at Warsaw University of Technology**
- Prepared a technical report about different techniques to store data and to implement GUI on web applications.
- 11.2014-06.2015 **Junior Java EE Developer at Atos IT Services SE**, Warsaw
- Developed web applications for the telco and banking sector in Poland.
 - Technologies: Java EE 6, OSB (SOA architecture), XQuery, PL/SQL, JPA, Spring
- 03.2014-10.2014 **Junior Software Developer at Comp CI SA**, Warsaw
- Worked in a SCRUM team developing parcel machine's software for Polish Postal.
 - Technologies: JavaFX, PostgreSQL, Spring 3, JUnit 4

EDUCATION

- 2015-2018 **Warsaw University of Technology**, Faculty of Electronics and Information Technology
Computer Science, MSc, GPA: **4.76/5.0 (Summa Cum Laude)**
- 08.2017-12.2017 **Nanyang Technological University**, Computer Science, Student exchange, MSc
- 02.2016-06.2016 **Delft University of Technology**, Computer Science, Student exchange, MSc
- 2012-2015 **Warsaw University of Technology**, Faculty of Electronics and Information Technology
Computer Science, BSc, GPA: **4.56/5.0**

SELECTED SIDE PROJECTS

- **Shopper assistance system with a bar code scanner support.** Mobile and web application created in Spring MVC framework. Source: github.com/tr0k/Pricescanner
Technologies: Java 8, Spring, Android API, Vaadin
- **Search engine for MOOC websites.** A web application for Massive Open Online Courses (MOOC) which includes crawling and indexing of the web content, recommendation system as well as search functionality. Source: github.com/tr0k/Educational-Bridge
Technologies: Java EE 7, Elasticsearch, AngularJS
- **Creek puzzle solver.** Individual project wrote in Haskell. Source: github.com/tr0k/CreekPuzzleSolver

SKILLS

- **Core stack:** Java, Hadoop(HDFS, Yarn, MapReduce), HBase, Spark, Shell scripting, Puppet, Linux, SQL, Maven, Git, GitLab CI/CD, Docker, Apache Phoenix, Web Services, Web Development, Collectd, RDBMS
- **Basic knowledge of** Kafka, K8s, JavaScript, Angular 8, Node.js, Spring Boot, Python, Presto, LaTeX, InfluxDB
- **Additional prior experience in** C/C++, Haskell, Scala, .NET, Elasticsearch
- **Languages:** English(proficient), French(basic), Polish(native)

MISCELLANEOUS

- **Scholarship** for students with an outstanding GPA (2013/2014, 2016/2017).
- **Driving license** category B (since 2011).
- **Technical certificates:** CERN School of Computing (2019), Oracle Service Bus Foundations, Android Application Development
- **Soft skills:** effective communication, time management, presentation skills, teamwork, project management, fast-learner