Dávid Szakállas

Software Engineer
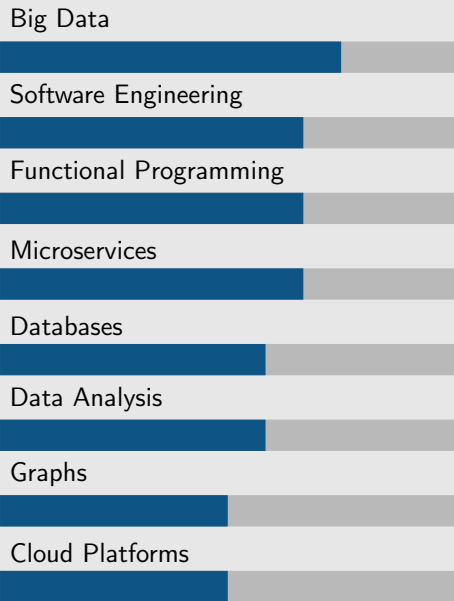
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About me

Software engineer with experience in distributed data processing and back-end service development with strong preference for functional programming and type safety.

I have a M.Sc. in Computer Science Engineering and 5 years of experience in various areas ranging from backend development to data engineering.

Skills

Big Data

Software Engineering

Functional Programming

Microservices

Databases

Data Analysis

Graphs

Cloud Platforms

Scala⋆5 Apache Spark⋆4.5 Git⋆4
Node.js⋆4 JavaScript⋆4 SQL⋆4
Python⋆4 Linux⋆3 Docker⋆3
Kubernetes⋆3 C++⋆2 Clojure⋆2 ⋆

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Interests

I focus on developing distributed data ingestion and machine learning pipelines on cloud platforms using common open source technologies. I am keen on delivering automated, well-engineered solutions to mission-critical processes. I am a polyglot, having worked with several languages and prefer to use Scala, Python and JavaScript. I also have a basic foundation of statistics, machine learning and related technologies e.g., R, numpy, pandas, scikit-learn. I am a functional programming and type system enthusiast.

Education

2015 – 2018	**M.Sc. in CS Eng.** Budapest University of Technology and Economics Thesis: Evaluation of openCypher graph queries with a local search-based algorithm
2011 – 2015	**B.Sc. in CS Eng.** Budapest University of Technology and Economics

Experience

Oct 2017 – Feb 2020 — Data Engineer — Ekata (formerly Whitepages Pro) (Budapest)

Developing a mission-critical data ingestion application in Apache Spark. Developing platform libraries for file I/O and caching for Apache Spark. Orchestrating an ML pipeline with Apache Airflow, Kubernetes, Helm and Databricks. Developing a rapid ML feature prototyping application for data scientists.

During my day to day work, I am using the following technologies and languages: AWS S3, Apache Spark, Apache Airflow, Docker, Jenkins, Git, Scala, Python, Kotlin, Databricks, XGBoost

Jan 2016 – May 2017 — Software Engineer — RisingStack (Budapest)

Developing the monitoring agent in Node.js. Developing the back end microservices of the distributed tracing feature. Gaining experience in industry-standard distributed tracing technologies such as OpenZipkin, OpenTracing and Google Dapper.

Nov 2014 – Aug 2015 — Technology Intern — Morgan Stanley (Budapest)

Developing an application for analysing logs of an internal messaging system for my Project Laboratory assignment using the ELK stack, Scala and relational DBs. Working on a financial application.

Other information

Public speaking

Oct 2018	Spark+AI Summit EU – Spark Schema for Free
March 2018	Budapest Clojure – Writing a Cypher query language in Clojure
July 2017	NodeBP Meetup – Scripting a MIDI controller in JavaScript

Languages

Hungarian	Native language
English	Professional working proficiency
German	Basic proficiency