Domonkos BALOGH

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Skills

Python – *5+ years of writing idiomatic Python*

- standard library (requests, collections, itertools, dis etc.)
- core modules of typical data science workflow (numpy, pandas, scipy, statsmodels, sqlalchemy, jupyter notebooks)
- machine learning ecosystem (scikit-learn, keras, opencv, tensorflow)
- browser automation, web scraping (selenium, Beautifulsoup) - ***lots** of scrapers...*
- webapps (flask, jinja)

SQL

- flavours used: mySQL, Sqlite, PostgreSQL
- proficient in writing advanced queries and the basics of query optimization
- triggers, stored procedures

Machine Learning

- years of experience with machine learning techniques (Random Forest, SVM, Logistic Regression, Neural Networks) through various projects

C/C++

- written a matrix library in C
- in the process of studying the C++ standard library

Statistics, Data Science and BI Tools, Data Visualization

- well-versed in statistical inference and methods
- Python plotting libraries: matplotlib, plotly, seaborn, bokeh
- Weka, gretl
- Tableau
- Microsoft PowerBI

Visual Basic for Applications

- used extensively for Excel automation
- written a sports analytics data pipeline in it that handled data wrangling

Tooling & Unix

- Linux user for 5+ years
- have used bash and Unix command line tools (awk, grep etc.) extensively
- git (GitHub, GitLab)
- Docker, VirtualBox
- travis-ci

Other languages and technologies used beyond hello world

- R (analyses – certain sports modeling packages are only available for R)
- PHP (blog engine, helper webapp for sports modeling on a LAMP stack)
- Javascript (d3, various smaller features for websites, couple of MVPs in React)
- Haskell (interest in functional programming)
- HTML, CSS (Bootstrap)
- Markdown, LaTeX

Computer Science (Object Oriented & Functional Programming, Algorithmizing)

Qualifications

Eötvös Loránd University

Computer Science BSc (2019 - est. 2022) (night)

courses include: Programming (C++), Functional Programming (Haskell), Linear Algebra

Budapest University of Technology and Economics

Computer Science and Engineering Bsc (2018)

courses included: Intro to Computer Science, Calculus, Programming (C)

Corvinus University of Budapest

Business Administration and Management BA (Business Theory spec.) (2013 - 2017)

courses included: Mathematics (Calculus, Probability, Linear Algebra), Statistics, Econometrics, Finance, Decision Theory, Cases on Business Economics

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Work experience

Roche Services (Europe) Ltd.

August 2016 - August 2017

- Built an automatic quality check system in VBA that greatly (5,000 → ~800) reduced the time and effort needed to manually check invoices each month by flagging the potentially problematic ones (implemented for the Swiss and German AP teams)
- Built a reporting system for high amount invoices
- Gained insight into the inner workings of various SAP modules

Various student jobs

2012 - 2015

- e.g. coordinated cleaning teams at Sziget festival

Languages

- English - full working proficiency (C1: ELTE Origo, 2019)
- German - limited working proficiency (B2: Österreichische Institut, 2013)
- French - limited working proficiency

Selected projects

Sports modeling

- ongoing, multi-year adventure with sports prediction using machine learning
- focusing on soccer, basketball, hockey

Webapp - Hungarian Poets text classification (not live yet)

- built database of 5000+ Hungarian poems and poets
- Flask backend
- user can check whose style is closest to their own (classification and similarities using Logistic Regression)

Webapp - currency exchange price comparison site for Hungary (not live yet)

- Python scrapers, Flask backend
- search exchange offices by geo-distance
- time series forecasting capabilities