Beniamin Jędrychowski

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Warsaw, Poland

Education

2020-2022   **MSc, Computer Science**; University of Warsaw

master thesis: Static Analysis of Object-Oriented Programs

2017-2020   **BSc, Computer Science**; University of Warsaw

bachelor thesis: Mobile surveys system for exhibit evaluation through QR codes.

Experience

Software Engineer at Transatel:

- 02.12.2022 - currently
- Main technologies: Java, Spring, Microservices, RabbitMQ, JSON, SQL, Maven, Jira, Jenkins, Teamcity, CI/CD, Jhipster stack.
- Working with very experienced, international team as part of team responsible for Provisioning.
- Collaborating with business stakeholders and cross-functional teams to develop software solutions that meet business needs and requirements
- Implementing and maintaining high-quality, scalable and maintanable code that adheres to coding standards and best practices

IT Consultant at Netcompany:

- 01.03.2022 - 30.11.2022
- Main technologies: Java, SQL, XSL, Maven, Docker, Jenkins, CI/CD.
- Working in international team for one of the biggest Insurance company in Denmark.
- Developing complex software system using Java and related technologies
- Leading development tasks and mentoring junior developers
- Took part in full software development cycle.

IT Contractor at KPMG Poland:

- 01.01.2022 - 28.02.2022
- Main technologies: Python, Flask, Javascript, HTML, MSSQL, MongoDB, Celery
- Developed internal tools for automation of reserve calculation, which ended up being order of gratitude faster than previous, excel solutions.

Technical Skills

Programming Languages   **Java** While barely mentioned in my projects, Java is the language which I feel most comfortable with. I have been working with both huge monoliths (Netcompany) and a lot of Microservices (Transatel) I have pretty good experience with

software design patterns. I also sucesfully passed exam for Java SE 17 Developer Certification. Overall, this is the language which I feel most confident with.

Python Language that I used to use the most. Starting from simple scripts to automate tedious tasks, going through a couple of **machine learning** assignments using scikit-learn and PyTorch libraries, ending with web development with Django and Flask frameworks, Python showed in my projects a lot. It is also one of the languages which I have commercial experience with, which is reason why I feel pretty confident with it.

Basic knowledge of **C#**, **C**, **C++**, **x86 assembly**, **Haskell**, **Rust**, **CSS**, **HTML** languages

Knowledge of **Javascript**, **SQL**, **REST**, **RabbitMQ**, **Django**, **Flask**, **ORM**, **Object-Oriented Design Patterns**, **Google Cloud Platform**

Projects

CNKieter

Mobile surveys system for exhibit evaluation through Quick Response codes.

- Written in Python & Django Framework
- Written with 3 other people in team

Latte Compiler

Compiler for imperative language Latte, which is subset of Java language

- Written in Python with ANTLR4 parser
- Written using visitor pattern

Atomic Disk Drive

Implementation of distributed block device. It stores data in distributed register, which consists of multiple processes in user space, possibly on different machines

- Written in Rust
- Solution work in crash-recovery system: If process ever crashes, it will be able to recover and still work correctly

Help-MIMUW

Website which allow students to share math excercises & math problems and receive. Basically Brainly, but better.

- Written in C#, .NET Core framework, using MVC design pattern
- Math excercises could be posted as text, images or in LaTeX/Markdown
- Solutions supported LaTeX/Markdown and adding images as well
- Voting for solutions and achievement system to ensure engagement
- Written with 4 other people in team

Text Discover Tool

Simple website which allow users to discover what text is available on the image.

- Web server written in Python & Flask
- Fully in Cloud: Webserver deployed on Google App Engine, while calls to API implemented as Cloud Functions
- Uses Google Vision API to detect text

Instant Compiler	Simple compiler for language that consists only of declaring variables and arithmetic operations

- Written in Python with ANTLR4 library to generate parser
- Outputs LLVM and Java bytecode

Torrent–	Network application which allows for distributed file storage

- Written in C++
- App consists of server nodes, and client nodes, which communicate through strictly defined protocol over TCP

Reliable Broadcast Lib	Library, which implements Terminating Reliable Broadcast Algorithm

- Written in Rust
- Crash-recovery model assumed, which means processes will be able to work correctly even in case of crash

Other projects can be found at **github.com/blomex**

Other Skills

- Analytical and Critical Thinking, Problem Solving, Teamwork, Adaptability and Open-Mindedness
- Languages:
  - Polish (native speaker)
  - English (fluent)