Patryk Bundyra

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OBJECTIVE

Highly fast learning and curious penultimate year student seeking new challenges. Eager for the opportunity to combine my unique educational background with problem-solving, leadership, and communication skills to make a substantial impact as an intern and bring a good atmosphere to your team. Thrive in a fast-paced and intellectually intense environment.

EDUCATION

University of Warsaw - Faculty of Mathematics, Informatics and Mechanics Oct. 2020 – Jun. 2023
BSc. in Computer Science Warsaw, Poland

- **Coursework**: Algorithms and Data Structures, Concurrent Programming, Databases, Design Patterns, OOP
- **Languages**: Python, C++, Java, C, SQL

EXPERIENCE

Covid Genomics Jul. 2021 – Sept. 2021
Python Developer/DevOps

- Implemented **REST API** Endpoints using **FastAPI** and **Python** that align genetic sequences with a given genome
- Accelerated and increased consistency of developing process by creating **set of development tools** with **Python**
- Automated populating databases by creating **ETL pipelines** using **Airflow, DVC** and **Python**
- Created **CI/CD** pipelines using **Github Actions** that managed elastic **Kubernetes** clusters and PyPi repositories
- Created and managed **AWS** and **Azure** architecture

PROJECTS

- C++ program using the treap data structure to perform fast operations on a genome, simulating real-life mutations.
- C++ interface allowing to program a rover with commands and sensor using the builder design pattern
- Python, PostgreSQL and Scala web application scraping offers from the popular job boards, analyze and visualize data.
- Java concurrent program performing asynchronous operations on the Rubik's Cube with a given size.
- C calculator of multivariable recurrent polynomials implemented using dynamic pre-defined structures
- C++ benchmarking program comparing various concurrent implementation/approaches to the Collatz's Hypothesis

LEADERSHIP/ACTIVITIES

ML in PL Association Mar. 2021 – present

- Organised the Students' Day during the '21 edition of the ML in PL Conference for over 700 people
- Contacted students organisations and scientific communities for promotional purposes

Machine Learning Society at the MIM UW Mar. 2021 – present

- Implemented fundamental algorithms of classic ML (KNN, SVM, genetic algorithms, identification trees) in **Python**
- Implemented models that use feedforward, convolutional, recurrent neural networks in **Python - Keras, NumPy**

Students' Union of the Faculty of Mathematics, Informatics, and Mechanics Jun. 2021 – present

- Maintained previous and established new business relations with the Big Tech, the Big Four and the MBB companies
- Lead a several-person team which works with dozens of different companies
- Organised educational events and workshops for students in partnership with companies

TECHNOLOGIES AND LANGUAGUES

Languages: Python (NumPy, Pydantic, Typer, Pandas, Keras, scikit-learn,), C++, Java, C, SQL, Bash, Terraform

Technologies: Git, Linux, Airflow, Kubernetes, Docker, AWS, Azure, Github Actions, DVC, Valgrind

Writing clean and scalable code along with design patterns and best practises

OTHERS

- Problem-solving - puzzle enthusiast | Concrete Math & Algorithms and Data Structures college classes
- Excellent communications and teamworking skills
- Languages: English - C1 | Polish - native language
- ML & molecular biology enthusiast