



Karol Zajac

Scientific Programmer

S O C I A L

@karol-zajac

@facebook?

@karolzajac_

H A R D S K I L L S S S S S S S S S S S

- Python
- Bash
- C++
- Julia
- Docker
- HPC
- AWS
- HTML
- CSS
- JavaScript
- Angular
- FireBase
- React
- Ruby

S O F T S K I L L S

- Teamwork and Co-Operation
- Communication and Discussion
- Time Management and Multitasking
- Self-Organization

L A N G U A G E S

- Polish (Native)
- English (B2/C1)

H O B B I E S



Travel



Music



DIY



Swimming



Fitness



Calisthenics

A B O U T M E

Computer Science student with expertise in Python and High Performance Computing able to deliver efficient scientific artifacts. My experience in working with computational models, co-operation with international projects helped me advance in my career and resulted with two publications submitted to ICCS and CCGRID conferences. I also believe that I will be a great addition to a Scientific Programmers Team as I am excited to learn, ready for challenges and motivated to continue my science and tech journey.

E D U C A T I O N

MASTER'S DEGREE IN COMPUTER SCIENCE - DATA SCIENCE

Cracow University of Technology

2023-2024

BACHELOR'S DEGREE IN COMPUTER SCIENCE

AGH University of Science and Technology

2019-2023

E X P E R I E N C E

JUNIOR SCIENTIFIC PROGRAMMER

July 2022 - Current | Sano Centre for Computational Medicine

Member of Extreme-Scale Data and Computing team, In Silico World participant. Responsible for contacting the consortium partners' teams, deploying their computational models on HPC clusters and data management. Conducting user-tests of Model Execution Environment - the application which was extended with many features in the course of my Engineering Thesis. My research and work contributed to two publications - "Serverless Approach to Sensitivity Analysis of Computational Models" on CCGRID and "Digital twin simulation development and execution on HPC infrastructures" on ICCS.

JUNIOR SCIENTIFIC PROGRAMMER

Nov. 2021 - June 2022 | Sano Centre for Computational Medicine

Part-time continuation of working for Sano started with joining the European project - In Silico World (ISW). I was responsible for optimizing and adapting computational models to HPC infrastructure. I was scripting in Bash and Python, as well as working with Docker or Singularity containerization. My gained experience resulted with conducting a workshop and demo of Model Execution Environment application on real in-silico models for international partners. During the time, I was also making research for my Engineer's Thesis.

INTERN SOFTWARE DEVELOPER

July 2021 - Sept. 2021 | Sano Centre for Computational Medicine

During my internship at Sano, I was developing a Python application for counting and analyzing the gene sequences. Under a professional coordination and mentoring, I have learned how to work with the client and how to specify requirements. I have developed a good coding habits and working with Git version control system. At the end of my internship, I was working on documentation and preparing the input for publication.

C O N T A C T

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I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).