JAKUB GAŁAT

COMPUTER SCIENCE STUDENT

PROFILE

I'm a passionate Computer Science student, currently mostly interested in AI, Quantum Computing. I enjoy learning new things about your world everyday, especially cosmic discoveries and also nature related topics like neuroscience. My motto is "Per aspera ad astra", since I prefer doing challenging jobs than boring ones.

EXPERIENCE

07.2021 - Present **Goldman Sachs**
Offcycle intern, Warsaw
I am an analyst in the Risk Division and my work mostly focuses on writing scripts, which help with quantitative analysis. I was also introduced to some parts of data analysis.

12.2020 - Present **B.S. Thesis**
DEANN, Python, Keras
Thesis is about Differential Evolution Algorithm using Artificial Neural Network as a surrogate model for loss function approximation. I am implementing it in Python using Keras API.

06.2017 - 07.17y **Practising programing skills with mentor**
Kodarium Club, Stalowa Wola
Genetic Triangles - program that generates images from random triangles using a genetic algorithm. It was the first major project I created with a partner using Git version control tool. We showed it to the public at ”CID days”, an event that embraces our home-city’s tech roots.

04.2021 - 06.21y **HotPoll**
Academic project, Java, Spring
Polling web service. It was a reddit-like Spring/React app made in a group of 4 colleagues. My responsibility was to set up the working environment like Jenkins and VM docker containers and also the backend/server side of the application.

11.2020 - 02.21y **Crane OpenGL**
Academic project, C++, OpenGL 3
Simple game created as a project for Computer Graphics in OpenGl 3/C++. My responsibility was to create dynamic lighting and structure/refactor the code in a maintainable manner.

02.2020 - 03.20y **Functional Images**
Personal project, C++/Functional C++
A project in C++ that focused on lambdas and functional programming in C++. The main idea behind this project was to represent bitmaps as functions, where Point (pixel) is a parameter.

EXPERIENCE

04.2021 - 06.21y **Prolog First-order inductive learner**
Academic project, Prolog
Our job in this project was to study already existing code in Prolog, then implement a heuristic which will reduce the length of created rules by sorting them. It also contained a few tasks aimed at getting to know the language better.

04.2021 - 06.21y **Discount Prediction Microservice**
Academic project, Python, Keras, Flask
A project I did as a part of an ML Engineering course. The course was a really great experience, introducing me to many ML/AI related engineering problems and suggesting some solutions. We created a Flask microservice which served REST endpoints, not only for predicting the discount of a product, which will result in the client buying the product, but also training the neural network.

EDUCATION

2018 - Present **B.S. in Computer Science and Engineering**
Warsaw University of Technology, Warsaw
Finishing my Bachelor in February 2022 and planning to start Masters after. During my studying time I was also a member of student science club GameDev - Polygon and attended lectures of AI/ML club - Golem.

ACHIEVEMENTS

Scholarship Winter 2020
Chancellor's Scholarship awarded to the top 8% of students for their respective field of study.

Scholarship Spring 2021
Chancellor's Scholarship awarded to the top 8% of students for their respective field of study.

CONTACT

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https://github.com/Demongo2009
https://demongo2009.github.io/