

# Magdalena Latifa

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## Summary

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Current student at University of Glasgow pursuing a BSc (Hons) degree in Computing Science, looking to gain experience in the industry. Particularly interested in fields such as Algorithmics, Theory of Computation, Artificial Intelligence and Machine Learning and open to broadening my areas of interest.

## Education

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### University of Glasgow

2018 - present

BSC (HONS) IN COMPUTING SCIENCE

- Year 2 grade point average: 21/22 (Computer Science and Mathematics)
- Year 1 grade point average: 19/22 (Computer Science, Mathematics and German)

### The International Baccalaureate

May 2018

BILINGUAL DIPLOMA AWARDED

- Higher level subjects: Mathematics (6/7) • Computer science (6/7) • English B (7/7)
- Standard level subjects: Physics (7/7) • Economics (6/7) • Polish A (5/7)

## Experience

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### Amazon

June 2020 - present

SDE INTERN ON THE AWS TEAM

- Used AWS Cloud Development Kit (CDK) for creating Infrastructure as Code using TypeScript as well as cloud services such as Amazon DynamoDB, Amazon S3, Amazon SNS, Amazon SQS, AWS Lambda and AWS Step Functions.
- Worked on large scale systems using modern tooling such as Java Spring, Lombok and testing suites such as Mockito.

## Projects

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### DLL and BST as Dynamic Set ADT (Github link)

INDIVIDUAL

- Implemented the dynamic set abstract data type as a doubly linked list and a binary search tree in Java.
- Created a testing suite in order to assert correctness of both implementations.
- Extended the testing to allow users to use it as a metric for comparison between both implementations.

### PySnakeAI (Github link)

COLLABORATIVE

- Developed a Q-learning algorithm in Python to train an agent to play the PySnake game in collaboration with my colleague.
- Used Q-table and then replaced it with deep neural network to achieve a Deep-Q algorithm, resulting in improved agent performance.

## Skills

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**Technical** Python • Java • AWS • SQL/NoSQL • TypeScript • Git • Bash • Unix  
**Languages** English (fluent) • Polish (fluent) • German (intermediate)

## Extracurricular Activity

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### Glasgow University Technology society

October 2019 - present

COMMITTEE MEMBER

- Tutored at Machine Learning workshops.
- Helped with organising Hacker Olympics 2.0 2019 and Google Hashcode 2020 (Glasgow Hub).
- Participated in *Do you have the GUTS* hackathon 2019.

### Glasgow University Competitive Programming society

September 2018 - present

Participated in society's competitions, talks and in ACM ICPC preliminary round.