# JACOB INWALD

Computer Science Student

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## SUMMARY

I am a 3rd year computer science student ...

## SKILLS

**Languages:**   Java, Python, C++, C, Haskell, Scala,

**Technologies:** Wireshark, ...

## PROJECTS

Hash Cracking **pwdtools** github.com
A library of password related tools, from cracking plaintext passwords to cracking hashes. I also expanded this to allow for encryption/decryption using passwords as well as public key cryptography.

Dynamic Program-**Seam Carving** github.com
ming I wrote a program to implement the seam-carving technique defined in Avidan and Shamir (2012). It was interesting to apply the concept of dynamic programming to a concrete example.

Image Manipulation **Genetic Image Create** github.com
I wrote a program that used an evolutionary algorithm to generate an image. It created generations of quadrilaterals and then bred them together to find the best fit for the image. It created interesting, stylized images, which was my goal.

Classification **Optical Character Recognition - A-Level Project (achieved 98%)** github.com
I wrote a neural network that achieved 90% accuracy on the MNIST character set. To make this a challenge, I did not allow myself to use any external libraries, apart from one for PRG.

## EDUCATION

2021 - 2025 **BSc (Hons) Computer Science - predicted 1st** University of Edinburgh
Modules include: Computer Security, Reasoning and Agents, Machine Learning

2019 - 2021 **Secondary Education** JCoSS
4 A-Levels at grade A* in Mathematics, Further Mathematics, Computer Science, and Physics

2017 - 2019 **10 GSCEs at grade A* and A** equivalent** JCoSS

## EXPERIENCE

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SQL  /  Excel
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## HOBBIES

2021 – current **Edinburgh University Climbing Team** University of Edinburgh
· Competed in BUCS 2022, 2023, and will be competing in the 2024 event.
· Competed in NULSCC 2023.
· Organized and ran coaching sessions for the Edinburgh University Mountainnering Club
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High-pressure performance  /  Team-work  /  Teaching
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| 2019 – 2021 | **The Castle Competition Squad** | **The Castle Climbing Centre** |

· Competed in the BMC Youth Climbing Series, coming 4th at one event.
· Volunteered as an instructor for the younger classes.
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High-pressure performance  /  Team-work  /  Teaching
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## LANGUAGES

**English** - natives