Samuel Borg
Computer Science Student

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Profile

I am a third year Computer Science student at the University of St Andrews with an interest in cybersecurity, and video game design and development. I have a large amount of experience in programming and in working in teams. As a result of this, I have strong problem solving, communication and interpersonal skills.

Education

University of St Andrews / BSc (Hons) Computer Science *(Predicted 2:1)*
September 2021 - Present

Relevant Modules: Software Engineering Team Project, Logic and Reasoning, Artificial Intelligence, Data Communications and Networks, Data Encoding, Computer Systems, The Internet and the Web.

Key Skills Developed:

- Leading a team of 5 people as the Scrum Leader and collaborating in a supergroup of 20+ people, while using a Scrum/Agile framework.
- Creating and tuning various machine learning models with scikit-learn in Python.
- Learning about and applying different cryptography techniques (e.g. AES, Diffie-Hellmann, RSA).
- Writing detailed reports containing evaluations of my code.

Earlston High School
August 2015 - June 2021

Advanced Highers: Mathematics (A), Physics (A)

Highers / SCQF Level 6: Mathematics (A), Physics (A), Engineering Science (A), Chemistry (A), German (A), NPA Software Development (Pass)

Skills & Programming Experience

Programming Languages: Java, Python, C#, JavaScript, HTML, CSS, C, SQL.

Other Technical Skills: Version control / project management with Git/GitLab/GitHub; Experience with the Unix terminal; Skills in using Microsoft Office programs.

Programming Experience:

- Developed a WikiData visualization tool in a large team of 20+ people using React.js (and various other technologies).
- Developed a financial toolkit web application in a team of 4 people over a 24 hour period using EJS, Tailwind CSS and Express.
- Developed various small games in Unity, both independently and as part of a team.
- Developed a simple Rubik's Cube solver in Java using Object-Oriented Programming principles.

Achievements

- Came first place in BlackRock's challenge at **Dundee University Hackathon** in 2024. Worked in a team of 4 people over a 24 hour period to develop a web application which improves financial accessibility.
- Placed on the **Dean's List** in my first year of university for getting consistently high grades throughout the year.
- Competed in the **Senior Mathematical Challenge** multiple times, achieving a Silver Award and a Best in Year award in 2019, and another Silver Award in 2020.