Samuel Thomson

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Profile

I am a self-motivated, responsible, and punctual 3rd Computer Science student studying at Heriot-Watt University currently on track for a 2.1. I am currently looking for an internship in either cyber security or software engineering, to demonstrate, strengthen, and apply my knowledge in those fields.

Education

Heriot-Watt University

Year Two
- Collected & worked with user data in accordance with legal & ethical guidelines.
- Analysed data to test hypothesis' from UI usability experiments conducted in a team.
- Improved my understanding of the relationship between programming languages.
- Gained experience using a functional programming language (OCaml).
- Improved my understanding of the properties of algorithms and data structures and mastered recursive programming techniques.
- Analysed a range of algorithms to find the time and space complexity.
- Gained skill using scripting languages for both client and server-side web programming.
- Broadened knowledge of the formalisms of database design.
- Have critical understanding of the principles of SQL query evaluation and database concurrency control.
- Gained the ability to create low-level programs using ARM and C.
- Have a critical understanding of software engineering processes and design methods.

Year One
- Introduced to Propositional Logic and First Order Logic (FOL).
- Critically analysed and evaluated the effectiveness of different user interfaces.
- Introduced to object-oriented programming and the basics of Java.
- Studied set theory, graph theory, linear algebra, and probability theory.
- Introduced to the Linux shell, and how to create bash scripts.
- Implemented a simple website using HTML and CSS in line with current standards.
- Designed and implemented databases using the relational model.

Glenrothes High School

Higher & National 5
- Mathematics, English, Computer Science, Physics, Administration & IT, Graphic Communication

Experience

Customer Service - Fraud Officer - Royal Bank of Scotland - Edinburgh
(19/04/21 – 04/09/21)
- Entrusted with customers' sensitive personal information.
- Delivered high-pressure outcomes to potentially vulnerable customers over
  the telephone, while simultaneously meeting various expectations set by my
  team manager.
- Involved in weekly team meetings where we discussed any issues we'd faced
  throughout each week, steps which can be taken to nullify said issues, and
  methods we can take to improve customer experience.

Foundation Apprenticeship - Adam Smith College (06/08/18 – 10/07/20)
- Developed a firm understanding of web applications development using SQL
  and PHP.
- Worked with a client, within a group setting, to create, develop, and deliver a
  website using HTML, CSS, JavaScript, and PHP.

QA Tester Internship - Ember Ltd, Glenrothes (08/04/19 – 11/10/19)
- Tested for and relayed errors on demo sites before they were due to go live on
  a web domain for the client's use.
- Created spreadsheets for the errors I uncovered and checked off the errors
  which had been fixed in newer builds of the sites.
- Interviewed the mentor and COO of Ember to find out what their different
  roles in the company entail, and what skills/personal qualities are required for
  their respective jobs.

Projects & Certificates

Certificates
GOOGLE CYBERSECURITY CERTIFICATE
- 05/2023 – 08/2023

Projects
PORTFOLIO WEBSITE
- samthomson.netlify.app
  - Steganography Program using C.
  - Password generator using Python.

Skills
- Security frameworks, controls, design principles
- Programming (Java, Python, C, HTML, SQL)
- Penetration testing tools (Hashcat, Hydra, John, CrackMapExec)
- Network analysers (Nmap, Wireshark)