Daniel Mackle

Year 2 Computer Science Student, Queen's University Belfast

Contact

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> SONI Ltd. 12 Manse Rd, Belfast, Co. Antrim BT6 9RT

Dear Sir or Madam,

Thank you very much for helping me choose SONI as a potential employer through your lovely events across Queen's University Belfast!

I first learned of this amazing opportunity through both in-person events and the QUB MyFuture platform. I am now pursuing this Cybersecurity Placement in Belfast for 2025. Please find attached my CV.

I am an excelling academic, having achieved a perfect GPA of 4.0 in both my first year of University and my A-Levels. I am currently a public Cybersecurity representative of both CyberFirst and ChildNet. I am also highly qualified in communication, with a Grade 8 and additional Diploma in Speech and Drama.

For the past two years, I have taken up two volunteer roles; as a CyberFirst Student Ambassador and as a ChildNet Digital Leader/Champion. In these roles, I give public speeches and presentations during notable events in QUB and in local secondary schools. I use my proficiency of Cybersecurity and public speaking to inspire the future generation and spread vital Cybersecurity skills. I was also a team leader in the QUB CS Sustainability Hackathon, winning the award of Most Creative Idea.

I have always had a huge admiration for SONI, as they are vital to the growth of Northern Ireland. I believe that working with SONI would be an amazing milestone in my Cybersecurity career, as I ensure that all of the data and systems of the vital framework of the local Energy Industry is preserved. In this role, I expect to be pushed to my limits in coding, incident response, digital forensics and more, forging me into a better worker in my field while working towards something great. Cybersecurity is my field of choice, and I would love to begin my career with a relevant, running start, in a way that can truly give back to the world around me!

Thank you very much for taking the time to review my CV.

I hope to meet you again in the next stages of the application process!

Yours faithfully,

Daniel Mackle.

CONTACT



+44 77526 77524

danmackle05@gmail.com

UK/Irish Citizen

Contains (Contains GitHub, MyFuture, Indeed)

in http://www.linkedin.com/in/danielmad

TECHNICAL SKILLS

Coding Languages (Most Self-Taught):

Java, MySQL, SQLServer, Oracle, Python,
C#, C++, TypeScript, XML, WPF, HTML, CSS,
BASIC, OBASIC, ARM and ARMLite.

Technical Software: Microsoft Visual Studio, WinForms, Microsoft Visual Studio Code, Eclipse, Notepad++, Replit, Pycharm, PHPMyAdmin.

Microsoft Office Master in Word and Excel, Microsoft Office Specialist in Word, Excel and PowerPoint.

Knowledgeable in Cybersecurity practices, including but not limited to incident response, digital forensics, network operations and information operations.

UNIVERSITY EDUCATION

Master of Engineering: Computer Science incl. Professional Experience

Queen's University Belfast - Belfast 09/2023 - 06/2028 (Current)

On track for a predicted degree classification of 1st.

(To-Date Average of 83%)

- Computer Science Challenges (71%)
- Intro. to Computer Architecture (90%)
- Introduction to Cyber Security (88%))
- Object Orientated Programming (85%)
- Fund. of Maths for Computing (82%)
- Databases (79%)
- Systems Security and Cryptography

 (TR4)
- Software Engineering and Systems (TBA)
- Data Structures and Algorithms *(TBA)*
- Theory of Computation (TBA)
- Professional & Transfer Skills (TBA)

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PROFESSIONAL SUMMARY & CORE SKILLS

- Enthusiastic academic, who has overcome many difficult yet rewarding
 optional challenges including the extremely competitive and demanding
 Computer Science Challenges module. I which, I thrived in a fast-paced
 environment, creating in-depth and detailed documentation while
 innovating on a business-oriented product, which I created and marketed.
- Leader of a winning team for this year's Queen's University Belfast
 Sustainability Hackathon, as of the 17th of October. The task involved the
 analysing and interpreting of quantitative and quantitative datasets to
 build creative solutions, grounded in hard evidence due to critical thinking.
 In this dynamic environment, we won the Most Creative Idea award.
- My dynamic time and priority management skills are presented through my plethora of personal projects, developed above and beyond my studies. I produced high quality projects, while continuing to excel.

WORK HISTORY

Machine Operator

Beverage Plastics - Lurgan, Co. Armagh

05/2024 - 09/2024

- For over 4 months, I worked a full-time, 12 day/night shift factory job, in a local bottle-blowing factory. This shows my Integrity and Dedication.
- Effectively operate heavy machinery, which included identifying, planning and solving the plethora of errors the large machines may experience, portraying my skills in Troubleshooting, Adaptability and Reliability.

Allstate Insight Programme Allstate NI - Belfast, Co. Antrim.

04/2024 - 04/2024

- Learned first-hand about the company's internal guidelines and techniques on the topics of: Software Development, Al Development, Cyber Security, Data Science and Software Testing.
- Collaborated in groups to identify and plan solutions to relevant scenarios and problems affecting the Software Development and Cyber Security industries. In this, I developed my awareness and communication skills.

Kainos CodeCamp

06/2023 - 06/2023

Kainos - Belfast, Co. Antrim.

- Collaborated in large groups of 10-15 developers to develop fun solutions to real-world issues, using a new coding language that I had not at that point used before, Typescript. I had to quickly adapt to this environment.
- Gained experience in using the web-based IDE Replit, alongside learning how Kainos manages and builds on huge repositories with Git.

Almac Crayer Craigaven Co Armach

06/2023 - 06/2023

- Almac Group Craigavon, Co. Armagh
- Shadowed and interviewed developers at work from all stages of the software development life-cycle, gaining tips and guidance from workers.
 In this, I focused on learning unique practices in a high-speed workplace.
- Gained knowledge on Almac's unique medical software development lifecycle, favouring careful documentation and quality over speed.

PREVIOUS EDUCATION

A-Levels/GCSEs, 09/2023 - 04/2028 **Banbridge Academy** - Banbridge, Northern Ireland

- Software Systems Development (A*)
- Physics (A)
- Biology (A*)
- French (C) [Additional AS-Level]

(For the above grades, I have achieved the Award of Academic Achievement for A-Levels.)

10 GCSEs including Further Maths (A*), English Language (B) and Software Systems Development (A*). **Grade 8 & Performance Diploma:** Speech and Drama, 09/2013 - 04/2022

London College of Music Examination

VOLUNTEERING

- CyberFirst Ambassador Since entering
 QUB, I have been spending my time
 representing the university's
 cybersecurity department. I am giving
 talks on online safety, cybersecurity tips
 and tricks, and presentations on open
 days on the benefits of a Computer
 Science course, and the current state of
 the industry.
- ChildNet Digital Leader In my final two years of secondary school, I gave talks and presentations on key skills for younger persons to stay safe online.
 Including: Cyberbullying, Online
 Influencers, Fake News and the dangers of explicit content.

REFEREES

Academic Reference - Professor John Bustard

Personal Tutor/Advisor for Computer Science Challenges Queen's University Belfast 16A Malone Rd, Belfast BT9 5BN (+028) 9097 4669

Personal Reference - Mr. Johnny Hawthorne

Relevant Shift Leader, Lead Mechanic Beverage Plastics Ltd. Silverwood Industrial Area, Silverwood Rd, Lurgan, Craigavon BT66 6LN (+028) 3832 2221

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MAIN ACADEMIC PROJECTS (TOP 2 OUT OF 4)

Computer Science Challenges Module

'Parameterised-Vector-Graphic-Faces' - Solo - Earned 70%

- A Desktop-Controlling Macro program which inputs a .PNG face image and outputs a dataset of images of posed 3D face models, generated via Generative Al. I had to build my skills in these new fields from scratch.
- Includes heavy documentation: How-To Guide, Daily Thoughts & Experience Diary, Blog Post, Testing Plan, Social Media Post and Commented Code. In this, I truly show off my attention to nuance.
- Developed with UI. Vision RPA and DAZ3D.
- Developed in Java, CSS, HTML, JavaScript and an arbitrary sequencing language native to UI. Vision.

Software Systems Development A-Level (Year 2)

'SimpsonsDatabaseManager' - Solo - Earned 95%

- A visual frontend program for use by either employee or customer actors.
 Exhibits robust total control over a large Database of products,
 manufacturers, customers and orders. Exhibits many quality of life features for both actors.
- Was developed according to Test-Driven Development practices and under the DSDM Agile Methodology, going through Alpha and Beta Testing Stages. This insight into the development workplace is vital for my career.
- Includes heavy documentation: UML, Entity-Relationship Diagrams, Data Dictionaries and a formal Video Presentation. Shows attention to detail.
- Developed with C#, XML and SQLServer.

MAIN PERSONAL PROJECTS (TOP 3 OUT OF 6)

'SustainabilityHackathon2024' - Group

- Collab with Caleb Hair, Leo Chartier, Craig Thompson, Arpit Kumar-Sahoo.
- Won most Creative Idea in the 2024 QUB Sustainability Hackathon.
- A plan to develop tourism in Belfast via the installation of Projectors with historical iconography around the city centre and popular tourist hotspots.
- Involved use of filtering data from large datasets and creation of interactive maps using dynamic webapps. These were used to sell our point through videos and detailed documentation.
- Developed with Python in PyCharm, and OpenAI's ChatGPT-40 model.

'ChristmasBreakPlatformer' - Group

- Collab with Caleb Hair
- A self-motivated attempt at extending our knowledge of Java with jgl, a
 Java wrapper for OpenGL that provides access to OpenGL using the JOGL
 Java library. Our original plan was to make a game, but this was downsized.
- We learned to wrangle large libraries and extensions to java; through group experimentation, pair programming and reading documentation.
- Developed with Java (jgl, JOGL) in Visual Studio Code.

"HeroQuestUpdated" - Solo

- An updated version of a sizable project, a fully visual based port of a complicated board game developed by Games Workshop.
- I replaced all uses of Windows Forms with WPF, to improve the responsiveness and style of the UI.
- With my newer techniques, I optimised the code and removed bugs.
- Developed with C#, .NET 5.0 and WPF in Microsoft Visual Studio '23. Thank you very much for your attention, have a nice day!