

Nathan Dunne

I am a student of Computer Science at The University of Warwick, moving into my final year in 2019 having taken an intercalated year to work as a Software Development Intern at Sophos. I consider myself a dedicated and hardworking student, with a positive attitude and a desire to improve that helps me to quickly develop new skills. Currently I am looking for a graduate position for 2020, and hope to find somewhere that will continue to challenge me after university, and allow me to use and expand on the knowledge and skills I have gained over the course of my degree.

Results

Second Year 1st (72%) June 2018

University of Warwick

Database Systems (81%) Software Engineering (79%), Adv. Computer Architecture (78%)

First Year 1st (72%) June 2017

University of Warwick

Discrete Maths (85%), Design of Information Structures (76%), Intro to Java (72%)

Advanced Level August 2016

The City of London Freemans School (CLFS)

Maths (A*), Computing (A), Physics (A), Electronics (A) [Advanced Subsidiary]

General Certificate of Secondary Education August 2014

The City of London Freemans School (CLFS)

11 GCSEs A*-B, 7 at A* including Mathematics, Additional Mathematics and English Language

Employment

Summer Intern Embedded Software Engineer June 2019 - August 2019

ARM Ltd.

- Assigned to the Clamshell team to work on optimisation of the Chromium web browser.
- Took over an investigation from a graduate into Automatic Feedback Directed Optimisation, and how it could be applied to chromium for performance increase through providing branch information to the compiler.
- This required me to become familiar with building the Linux Kernel, to enable support for hardware tracing, and use an ARM hardware development board for the majority of my work. I also expanded my debugging knowledge with gdb/gdbserver, carrying over what I had learnt at Sophos and expanding on it.

Placement Year Software Engineer July 2018 - June 2019

Sophos Plc.

- Assigned to the Fasttrack team to work as Development for Global Escalations Support.
 - Investigated customer and internal product issues when code analysis or a higher level of technical understanding was needed, requiring me to learn a number of Windows Debugging tools, as well as quickly become familiar with new code bases in .Net, C++ and C for different components.
 - Root causes were identified through live or static debugging, and analysis of logs generated by the product itself as well as troubleshooting tools e.g. Sysinternals, WireShark. In cases where a genuine bug existed I was sometimes able to implement fixes for the team that owned the product.
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Technical Skills

Programming	Scripting	Source Control	Operating Systems	Productivity	Debugging
C++/C	Bash	Git	Windows	Visual Studio	gdb
Python	PowerShell	Perforce	Linux/UNIX	Microsoft Office	WinDBG
Java	Lua			LibreOffice	SysInternals
JavaScript				LateX/BibTeX	WireShark

Volunteering

Project Leader

October 2016 - June 2018

Warwick Technology Volunteers

- Planned, coordinated and lead sessions for school age students aimed at inspiring them to utilise technology creatively rather than simply consuming it. Our sessions involved either Scratch or Arduino as a platform, and usually consisted of assisting the students through a set of resources weve created.
- Also advertised the project to fellow uni students to gain more volunteers and run more sessions, and provided training for the volunteers, to ensure a sufficient level of technical knowledge for them to lead school sessions themselves.
- This greatly improved my confidence, communication, presentation giving, and teamwork & leadership skills.

Interests

- Rock Climbing

Indoor Rock Climbing and Bouldering

- Charity Fundraising (Warwick RAG)

3 Peaks challenge:

>£600 for *The Meningitis Research Foundation*

Mount Kilimanjaro:

>£3400 for *The Meningitis Research Foundation*

Skydive:

>£400 for *Alzheimers Research UK*

- Powerlifting

Warwick Barbell Member 2018 - present

- Technical Theatre

Lighting design for productions of *Speed Death of the Radiant Child*, *Cabaret*;

Executive Committee member for Warwick Tech Crew 2017-2018.

References

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