

# 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.

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## 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

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## 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
C++/C	Bash	Git
Python	PowerShell	Perforce
Java	Lua	
JavaScript		
Operating Systems	Productivity	Debugging

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## 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 we've 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.
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## Awards & Achievements

### Mount Kilimanjaro

Meningitis Research Foundation

September 2018

Raised 3400 in sponsorship over 6 months through charity events, bucket shakes and donations.

### Three Peaks Challenge

Meningitis Research Foundation

July 2017

Raised 600 in sponsorship over the course of 5 months and completed the challenge over 27 hours.

### Tin Plate alias Wire Workers Prize

CLFS

July 2016

Awarded for excellence and contribution to the Computing Department.

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## Interests

Rock Climbing	Indoor Rock Climbing and Bouldering
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.
Film Production	Producer for Altered Mindset, a Student Film that premiered at the Leatherhead Theatre in September 2016.

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## References

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