

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 at A*-B, of which 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.

Technical Skills

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

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 approximately 27 hours.

Tin Plate alias Wire Workers Prize

CLFS

July 2016

Awarded for excellence and contribution to the Computing Department at The City of London Freemens School.

Interests

Rock Climbing
Powerlifting
Technical Theatre

Indoor Rock Climbing and Bouldering
Warwick Barbell Member 2018 - present
Lighting design for productions of Speed Death of the Radiant Child, Cabaret; Executive Committee member for Warwick Tech Crew 2017-2018.
Producer for Altered Mindset, a Student Film that premiered at the Leatherhead Theatre in September 2016.

Film Production

References

Dr. Matthew Leeke
Department of Computer Science
University of Warwick
Tel: +44 (0) 2476523366
E-mail:
matthew.leeke@warwick.ac.uk

Dr. Arshad Jhumka
Department of Computer Science
University of Warwick
Tel: +44 (0) 2476573780
E-mail:
H.A.Jhumka@warwick.ac.uk