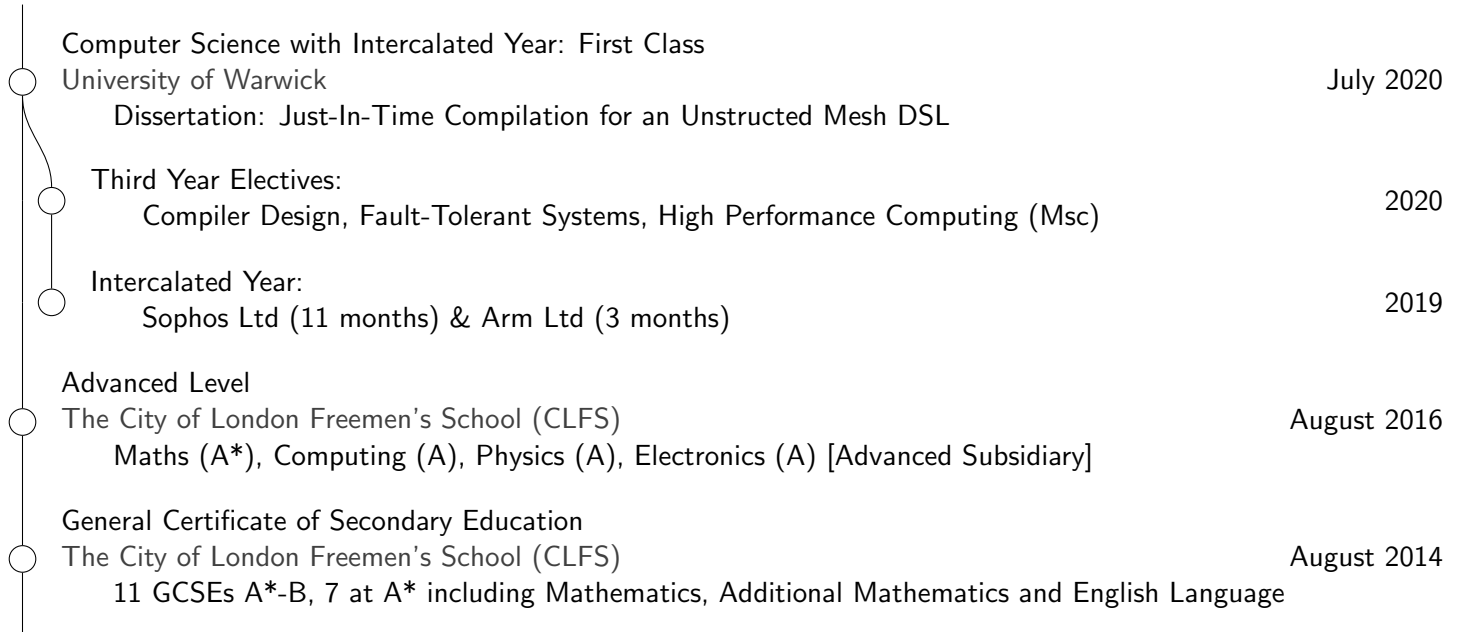


Nathan Dunne

I am a graduate of Computer Science First Class, from The University of Warwick. During my Undergraduate Degree I took an Intercolated Year to work as an full time Software Engineer at Sophos Ltd, as well as a Summer Internship at Arm Ltd. Since graduating I have been working in the Open Source Software division of Arm Ltd. I have a particular interest in Compilers and High Performance Computing, and consider C++ and Python to be my best programming languages.

Education



Employment

Open Source Software Engineer August 2020 - Present
ARM Ltd.

- Rotated between several teams in Open Source Software, for 8 month periods.
- Projects included:
 - Optimising linear algebra routines in C++ and aarch64 assembly for high-performance maths libraries
 - Generating bootable images for autonomous workloads with Yocto
 - Working on an LLVM compiler for an upcoming ARM hardware platform.

Summer Intern Embedded Software Engineer June 2019 - August 2019
ARM Ltd.

- Investigated a Google compiler optimisation framework that resulted in greater performance for Chromium users on ARM platforms.

Placement Year Software Engineer July 2018 - June 2019
Sophos Plc.

- 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 debugging tools, as well as quickly become familiar with new code bases in .Net, C++ and C for different components.

Technical Skills

Programming	Scripting	Source Control	Operating Systems	Productivity	Debugging
C++ 17 <div><div></div></div>	Python <div><div></div></div>	Git <div><div></div></div>	Linux/UNIX <div><div></div></div>	Vim <div><div></div></div>	gdb <div><div></div></div>
C <div><div></div></div>	Bash <div><div></div></div>	Perforce <div><div></div></div>	Windows <div><div></div></div>	Visual Studio <div><div></div></div>	WinDBG <div><div></div></div>
Java <div><div></div></div>	PowerShell <div><div></div></div>			Microsoft Office <div><div></div></div>	SysInternals <div><div></div></div>
AArch64 <div><div></div></div>	Lua <div><div></div></div>			LateX/BibTeX <div><div></div></div>	

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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Interests

- **Rock Climbing**
Indoor Rock Climbing and Bouldering
Warwick Climbing Club Member 2016 - 2020
 - **Charity Fundraising** (Warwick RAG)
 - UK 3 Peaks Challenge: >£600 for *The Meningitis Research Foundation*
 - Mount Kilimanjaro Trek: >£3400 for *The Meningitis Research Foundation*
 - Skydive: >£400 for *Alzheimers Research UK*
 - **Powerlifting/Olympic Weightlifting**
Warwick Barbell Member 2018 - 2020
 - **Technical Theatre**
Lighting design for productions of *Speed Death of the Radiant Child*, *Cabaret*;
Executive Committee member for Warwick Tech Crew 2017-2018.
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References

Dr. Matthew Leeke
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Dr. Gihan Mudalige
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