

# Ray Garner

ray@perfectcast.co.uk   raygarner.co.uk

## Education and Qualifications

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- ☐ Second year Computer Science BSc student at the University of Nottingham
- ☐ RSL Grade 8 electric guitar
- ☐ A, A, B in A-Level Computer Science, Music Technology and Music through Wigston College
- ☐ 11 GCSEs A\*-B through Guthlaxton High School

## Software Tools Experience

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<b>Software development</b>	vim, gcc, gdb, ghc, vscode, Eclipse IDE, JUnit testing, MATLAB, Visual Studio, Chrome dev tools, git, make
<b>Multimedia</b>	Reaper, Cubase, Ardour, ffmpeg, Audacity, Avid Sibelius, Musescore, GIMP, Blender
<b>Network tools</b>	ftp, ssh, Citrix Receiver, VMware Horizon
<b>Design</b>	Google SketchUp, Circuit Wizard
<b>Languages</b>	C, ARM asm, Java, Haskell, MySQL, JavaScript, PHP, VB.NET, shell script
<b>Markup languages</b>	HTML, CSS, L <sup>A</sup> T <sub>E</sub> X, Markdown
<b>Operating systems</b>	Arch Linux, Debian Linux, Windows 7 onwards, macOS Sierra onwards

## Software Development Experience

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- ☐ For A-Level Computer Science coursework I created a primitive chess engine with VB.NET for the college chess club.
- ☐ During the first year of my degree I completed various assignment exercises to gain experience with C, ARM asm, Java and Haskell.
- ☐ I created a film database website using HTML, CSS, JavaScript, PHP and MySQL for the coursework in the databases and interfaces module in year 1 of my degree. I now maintain raygarner.co.uk as a portfolio using skills I learned from that project.
- ☐ For the first group work module of my degree, me and my team created JUnit tests to debug a faulty finance management app. We used git for version control during this project.
- ☐ During the UK summer lockdown of 2020, I wrote a more advanced chess engine in Haskell with a friend I met at university. I later wrote an alternative version of the same program in C to allow it to make it's moves faster.
- ☐ I have written shell scripts to automate the installation and configuration of Arch Linux to my preferences and also to create a multi-track recording tool wrapper for ffmpeg and mpv.

## Perfectcast Ltd Work Experience

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- ☐ Laptop hardware upgrades
- ☐ Corporate laptop imaging
- ☐ Cisco video conference system installation
- ☐ Blender renderfarm setup
- ☐ End-user and network IT support

## Musical Experience

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- ☐ Lead guitarist in Leicester alt-rock band “The Scrubs”
- ☐ Lead guitarist in the Wigston College Jazz Band
- ☐ Choir member in “The Armed man: A mass for Peace” at the Royal Albert Hall
- ☐ Guitarist in Rhys Chatham’s “A Secret Rose” Birmingham Town Hall performance
- ☐ Recording technician for Wigston Academy Trust GCSE Music recitals
- ☐ Lead guitarist and co-producer in Leicester math-rock band “PE Department”
- ☐ Session guitarist for friends and students
- ☐ Pit band guitarist for the shows: Joseph and his amazing Technicolour Dreamcoat (Abington High School), Little Shop of Horrors (Guthlaxton High School), Annie (Wigston College), School of Rock (Wigston College), Cats (The Little Theatre)
- ☐ Composed and produced western classical and glitch-pop pieces for A-Level Music and Music Technology using Sibelius and Cubase
- ☐ Composed and produced electric guitar oriented pieces as a hobby using Reaper