Brandon Walsh

Mobile: 089 255 1282

Email: metasophiea@gmail.com

Website: metasophiea.com

LinkedIn: linkedin.com/in/metasophiea

Github: github.com/metasophiea

DCU Electronic & Computer Engineering graduate, Support Engineer at Openmind Networks, fan of Radex Sort, avid programmer and designer, all round cool guy
Language skills: JavaScript, Bash, Python, HTML, VHDL, C/C++, Java, Assembly

Experience

Openmind Networks – Deployment/Support Engineer

4 Westland Square, Pearse Street, Dublin 2   November 2017 – Present

As a member of the Openmind Graduate Program, I was introduce to all technical aspects of the company's lead product; Traffic Control, after which I was moved into the Deployment department to help out with the installiation of Openmind software into customer networks; which included installation, integration, test and go-live; along with writing a number of scripts to help these processes.

After this, I was selected to move into the Support department. This task involves working with various customers of Openmind to solve issues they have encountered with their deployed systems.

Alexion Pharmaceuticals – IT Intern

College Business & Technology Park, Bóthar Bhaile Bhlainséir Thuaidh, Dublin 15   April-September 2016

In my time here, I served the role of IT support Intern; a task that primarily consisted of helping others with technical difficulties with their laptops or related equipment / software. Whether that was setting up a desk for a new starter (complete with docking station, monitor, phone, etc.) installing software or helping people through setting up, or issues encountered with some of the Alexion systems.

Beyond this lead role, I also took up the tasks of general maintenance, performing regular meeting room inspections, or formatting and installing fresh copies of the company's flavour of Windows Professional onto laptops that would be distributed out to users.

Jack Cody's Brewery – Workhand

Drogheda, Co. Louth   Summer 2015

Capped, labeled and boxed the various beverages for distribution.

G4S - Office Assistant/Cash Processer

Rialto, Dublin 8   December 2014 – January 2015

Cash Processing involved handling large cash volumes in the replenishment of ATM cassette strongboxes.

My main duties within the G4S Office were, to create contract schedules for over 1,000 clients. I also assisted in updating their GPS System by providing GPS coordinates for all current business.

Walsh's Shop - Shop Assistant

Knightstown, Co. Kerry   Summer 2014

A seasonal position within own family store. Main duties included stock replenishment, merchandising, pricing and stock rotation.

Projects

curve/workspace/core - Webapp/Framework/Graphical Library - javascript/glsl

A Project In Three Parts:

• Curve is a musical workstation designed to be like real-world music making machines. There's synthesizers, effect units, keyboards and all sorts of stuff you can plug together and play with.

• Workspace is a interface framework that is being written alongside Curve. With it, one can create graphical objects and have them interact with one another and the user, in a visual and natural way. Just play around with Curve and you'll understand.

• Core is a webGl/webWorker based graphical framework written to replace the project's reliance on SVG. It's a bit shakey - and is certianly not the best replacement of SVG - but for the needs of the project it works just fine, and has already allowed the system to work faster and more efficiently.

riomhaireRua - Virtual Machine - c++/rua

A fun little virtual machine project with the custom language 'Rua', a little console access and some graphical ability

Final Year Project - Implementing the Simon Cipher In VHDL - java/c++/vhdl

For my final year project, I was asked to develop an implementation of the SIMON block ciphers in VHDL, and review my design's performance in regards to how fast the system could encrypt information, the hardware costs involved and power consumption. On this git (https://github.com/metasophiea/SIMON_VHDL), you can find all the development work I did on the system, plus some of the reports and documents I've made as part of the project.

In addition to this; as I was researching the cipher I developed a JavaScript version and created an online encoder/decoder tool for encrypting and decrypting messages using the cipher; https://metasophiea.com/apps/encryption/SIMON/translater/. The unencrypted message can be any text, though the encrypted message is hexadecimal as is the password used for encryption. I also had the idea of encoding entire websites using this system. This experiment page demonstrates an encrypted site being downloaded, decrypted and displayed in an iFrame; https://metasophiea.com/apps/encryption/SIMON/siteviewer/

metasophiea.com - html/javascript

My home on the web. Hosted on a pages.github.com, this is my main storage/showcase for all my web programming projects, as well as one or two non-programming projects.

Canvas Viewing Space / Presenter - html/javascript

Over the summer of 2016, while I was employed with Alexion as an intern; one of the end of employment tasks that my college set for me was to make a 5-6 minute presentation on my time there. Before I began at Alexion I had already been experimenting with 2d graphics, and had the idea to create my own presentation software with which to make a presentation.

Although not very featured, this is that program. Its presentation style is akin to Prezi, though with a UI that is border-agnostic.

A little bulky at times, and not super user-friendly, it has all the ability that I need to create my presentation. In future I hope to update it with new objects and editing features.

Ongoing Music Projects

I've always enjoyed writing and recording music as sort of a hobby project. I've recorded (around) 2.8 hours of music to date, including 2 albums and two album-length pieces, you can find the most recent on my SoundCloud profile.

Education

B.Eng in Electronic and Computer Engineering

Dublin City University   2013 – 2017

This program - where I selected the major 'Digital Interaction' - replaced and combined the best of DCU's previous offerings in Electronic Engineering, Digital Media Engineering and Information and Communications Engineering. As well as knowledge of the science and mathematics foundations needed by the electronic and computer engineer; this course developed a wide knowledge in computer systems; from digital & analogue circuitry embedded software and hardware design, to human-computer interface technology, web application development and image processing & analysis

Leaving Certificate

St. Mary's Diocesan School   2007 – 2013

Front End Development Certification

Free Code Camp   2015