

Luke Stevenson

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EXPERIENCE

Diodes — *It Graduate Analyst*

31/8/20 - PRESENT

The IT team at Diodes is responsible for developing station controllers (SC), which is a program which interfaces with semiconductor manufacturing tools, to facilitate the smooth operation of the process and automate the usage of the tools, so that manufacturing can be more efficient. The SC's are written in TCL/TK, and in my time at Diodes I have been involved in creating station controllers for these essential tools. This has been an interesting experience as I didn't have any prior experience using TCL, and I have also had to learn about the semiconductor manufacturing process in order to create the code for the SC's. This has tested my communication and collaborative skills, as while all SC's are built by one person, I have had frequent communication/feedback from process engineers on features that they would like to add (this includes extra data collection from the tool, and the ability to track tool maintenance for example). I have also been tasked with porting old station controller code from tcl/tk 8.5 to 8.6, which involved rewriting the code with a new object-oriented framework (TclOO). I have been involved in the rewriting of some in-house software including the time management system, in which I used tcl /cgi files alongside html and sql to interact with a postgres database. I've used tcl scripting to generate automated reports, one of which is used for chinese customs (change).

Scottish Power — Summer IT Intern

3/6/19 - 4/9/19

I successfully gained an Internship during the Summer within the IT department, servicing the needs of the internal Energy Networks business. During this time, I gained knowledge of the planning and implementation stages of software development which gave me an interesting and valuable perspective on the internal business processes required. I was responsible for delivering a business project using ESRI GIS software, to build a mobile application for the capture of operational field data, relating to customer cableheads. The data was then presented back to the core GIS system and displayed via a dashboard. The application was rolled out to operational staff across the business and is still in use. In another example, I used my initiative to solve another business issue by using PowerShell scripts, amongst others, to reduce the time taken to complete repetitive tasks.

McDonalds — Front of House

1/6/18 - 21/12/18

My tasks involved greeting and serving customers, handling and bagging up orders, operating drinks and desserts machines, all in a timely and efficient manner.

Programming Languages

Java (3 years)

Python (3 years)

C & C++ (1 year)

JS / JQuery (learning currently)

TCL/TK (7 months)

Extracurriculars

- I was the captain of the UoG men's volleyball team which included organising and arranging games plus travel, and helping with finances. This role involved communicating with University officials and tournament organisers etc. , and ensuring that the team is always informed of plans for future games. I also played a large part in the merging of the Women's and Men's teams, which was a significant administrative undertaking.

- UoG men's volleyball secretary (2 years)

EDUCATION

University Of Glasgow— *Computing Science BSc*

2016 - 2020

I graduated in June 2020 with a 2.1 classification in my computing science degree.

Kyle Academy, — *Scottish Highers*

2012 - 2016

During my time at Kyle Academy I achieved 6 Higher A's and one B, and an advanced higher B. These were in subjects such as computing, physics, chemistry, and mathematics.

- During my 5th and 6th years at school I was very involved in helping coach our younger volleyball players, in addition to captaining and coaching the senior team

PROJECTS

Programming experience (large projects)

- 2 years ago, I took part in developing a web application that my group and I designed the concept for. During this I took responsibility for driving the group in terms of leading discussions and delegating tasks, as well as delivering the final project presentation. This project was my first experience in developing software in a group setting, and thus was a good experience in the importance of proper change management, and communication between team members.
- Last year, I undertook another group project for a real-life customer as part of my university curriculum. This involved the new challenge of effectively speaking to our customer to elicit the correct requirements from them and ensuring that we adhered to agile methodology, splitting our work into 2-week sprints. We were tasked with developing a solution to read invoices automatically and present the information for further analysis. These factors added an interesting element to the project, whilst developing an implementable product for the customer. This project was also web app based, and I made use of Python, Django, JavaScript, in addition to libraries such as tesseract. My group's customer was Cooper Software, who aimed to use our software to deal with their invoices in-house.
- My final year individual project involved researching a relatively new behaviour-based reinforcement learning technique, which in other research showed a significant decrease in the number of training episodes required to fully train a model in comparison to other techniques. My research extended this technique and showed promising results when compared to different techniques used in the same learning environment (Super Mario Bros).
- I'm currently working on a chrome extension which will scan a webpage for links to user-defined news sites, and find links to an article with the same subject matter, on another site. I'm doing this project so that I can teach myself JavaScript and jQuery.