|  |  |
| --- | --- |
| Thomas Owen Jacobs  Motivated software engineer graduate, studied at Lancaster University and currently interning with the maritime department at DE&S. Experience of working in teams using agile methodologies to manage projects and deliver reliable products. Throughout my degree I have gained experience in all areas of the software life-cycle and in a variety of languages for desktop applications, mobile apps and web. I am now interested in new opportunities to work within a team and develop effective and efficient applications with real world impact. | Helsby, Cheshire  Filton, South Gloucestershire  **07543813507**  **tom.o.jacobs@homail.com**  **Github - /tomojacobs**  **Linked in - /thomas-o-jacobs** |
| EXPERIENCEDE&S (MOD) - *Software Intern*June 2019 - August 2019  * As my first role working in an environment that is more suited to my specialised area of software engineering I have worked to support products currently in use within the Maritime domain. * Attended meetings with support partners and clients to push through changes. * Working in an agile team environment with regular project progress meetings. * Gained experience liaising with different MOD departments in the production of a strategy guide for a platform management system. * Understanding of how ship software architecture is structured. * Working with contractors to resolve an issue cause at contract inception. * Understanding the need for Defense Standards that help to keep conformity across organisations.  Tesco - *Customer Assistant*November 2016 - June 2019  * Working part time/full time through the seasons within a very friendly and great team. * Addressed customer concerns and issues with empathy and efficiency ensuring that the customer was satisfied with the outcome. * Responsive and proactive in meeting the differing needs of the store without being prompted. * Trained across multiple departments proving to be a flexible and valued member of the team. * Providing excellent customer service, serving over 100 customers per day, treating everyone with respect and courtesy.  McDonalds - *Crew Member*May 2016 - November 2016  * Worked as a kitchen crew member to prepare food for customers adjusting to the demand where needed. * Expanding my time-management skills to work at adaptive hours to fill demand when needed. * Initially challenging moving from a calm customer facing environment to a labour intensive one, but it has taught me some valuable skills such as being able to work in a very fast paced environment.  EDUCATIONLancaster University *- BSc Hons Software Engineering*October 2016 - June 2019 *> Fundamentals of computer science, Digital Systems, Databases, HCI, Computer Networks, Security, Advanced Programming, Distributed Systems* *West Cheshire College - BTEC Software Development*September 2014 - June 2016 *> Event driven programming, Software Design and Development, Object Oriented Programming, Games Development*  **PROJECTS** Orbit - A smart home IOT as a service project. As part of my final year project my team and I produced a web and app based interface for an IOT system to interface with sensors giving real time data. The system allowed users to setup “routines” very similar to that used by amazon echo, track system history as well as a host of user features. The front end of the project was completed in react and react Native while the sensors were programmed in arduino (C/C++) and the backend a combination of PHP, SQL and JavaScript. Lexical Analyser - Structural analysis of ada programs for errors. A program written in java that takes Ada programs as an input and using recursive descent checks the program for structure and grammar errors displaying useful errors. As Ada is a fairly simplistic language the program only needs to check for correct statements, expressions, factors, operators, etc. Auction System - An auction system using RMI. Distributed auction system using remote method invocation; users have a client console for sellers or buyers that allows them to access the implementation via remote method calls. The users can create a listing, setting a starting bid, reserve and description which other users can bid on. Built with user objects encrypted and passed to the remote server for execution. River Crossing - A recreation of the board game A java version of the river crossing board game, users have to get from the bottom of the board to the top only crossing planks. The user can pick up planks and move them but only to adjoining stumps. The game forces the user to backtrack and find a new way if they get stuck. Cipher - An IOT as a service project Simple shift cipher, the application takes a key and an input and with cipher or decipher the inputted text using the key. | **CLEARANCE** SCJanuary 2019 - PresentLANGUAGES In order of time spent working with   * Java * React * React Native * Android * HTML * PHP * CSS * Python * SQL * JavaScript * C * C# * C++   **TOOLS**   * GitHub * Visual Studio Code * Expo   **SKILLS** Testing and debuggingTesting and debugging of code is a vital part of producing a reliable product. I have worked with multiple methods of testing code such as test driven development, white/black box testing to ensure reliability in my work.Software principlesSoftware principles are the foundation in which to build good products such as the software development life cycle and OO principles like inheritance, encapsulation and polymorphism. These principles have been used where possible to enhance my development.Communication and teamworkThrough my career so far, as well as my time in education working with different people has given me the chance to constantly improve my communication and team working skills. Because of this I am now a very confident speaker capable of communicating concisely with anybody I meet such as customers and my peers.Time-management and multitaskingHaving been working for the last 4 and a half years and managing a full-time degree I have proven to have excellent time management skills to ensure that I am present and on-time for both my work and education, as well as ensuring all tasks are completed promptly.Problem solving and JudgementProblem solving is an integral skill in computing and life in general, making the decision to fix a problem is very important. My degree and work has thrown up many situations where there have been problems to solve including code related, that have improved my judgement.IT SkillsAs a student having studied a heavily IT related software engineering degree my IT skills are excellent, having been exposed to and have used mainstream software such as the Microsoft package for many years. I have also been working with specialised software tools such as IDE's for the development of projects.Creativity and self-motivationI would classify myself as a motivated individual and have a strong creative drive to learn new things and develop new personal projects. As I complete more projects my understanding and ability to visualise the end product that I am working towards has improved. |