KARSTEN LLOYD
Full Stack Software Engineer

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SUMMARY

A stage three student at Newcastle University on track for a first-class Computer Science degree. Love problem solving, and learning new programming languages and frameworks. Enjoy working in teams, last year collaborated with seven people on a project to achieve a first-class mark designing and developing a mobile application, web-application and a marketing site. Currently interested in expanding knowledge in mobile and web development.

EXPERIENCE

Voluntary Systems Administrator
Clean-My-Windows LTD (Dec 2019 – Present)
- Set up an Apache web-server and a MySQL Database server with automated backups.
- Upgraded workstation hardware and migrated to a Linux operating system.
- Monitor and maintain system updates and ensure backups are correctly taken.
- Provide support to staff if there are any problems.

Full Stack Engineer
Clean-My-Windows LTD (Jun 2019 – Present)
- Reduced administration processes by over 10 hours weekly by designing and creating a PHP web application. This uses a normalised relational MySQL database to manage the company.
- Used HTML, CSS, JS, PHP with AJAX, BootStrap and jQuery to build the solution.
- Created Python scripts to minimise the migration time.
- Used an agile approach when working with clients to develop the solution.
- Currently maintain and provide additional features to further improve usability and efficiency.
- Automated deployment and code management using Git version control.

Web Developer
Arbicon LTD (Feb 2018 – Jun 2018)
- Decreased page load times by up to 12x by developing the website using custom HTML, CSS and JS in addition to Bootstrap and jQuery libraries.
- Reduced website content update time by creating a PHP-MySQL backend that their employees use to upload new content and make modifications to the navigation bar.

Web Developer
Acting Graduate's Online Portfolio (Jan 2018 – Mar 2018)
- Used client's designs to develop an online image and video gallery using HTML, CSS, JS and BootStrap.
- Implemented a contact form that is validated on client-side using JavaScript and server-side using PHP.

Work Experience – Automated Tester
Qube Global Software (Jul and Aug – Oct 2016)
- Completed a 5-day placement with a variety of activities such as web-development, work shadowing and giving presentations.
- Created automated test suites for a corporate web-application after being invited back for a summer placement.
- Worked in a team of three and discovered problems as well as providing coverage for what worked.

EDUCATION

Computer Science BSc (Stage 3)
Newcastle University (2017 – 2020)
Stage 1: 79.8% - Relevant Modules: Programming (82%), Website Design and Construction (85%)
Stage 2: 78.8% - Relevant Modules: Computer Networks (88%), Algorithm Design and Analysis (84%)
Stage 3:   - Relevant Modules: Web Technologies, Website Construction and Management (Server-side)

Relevant Coursework
- Implemented a student record management system for a University department in Java using TDD which had features such as registering students and modifying their information (70%).
- Created an interactive teaching website using HTML, CSS and JavaScript (97.5%) link.
- Implemented a client-server communication system using network sockets, written in C.
- Developed a RESTful student note sharing website using TWIG, PHP and AJAX (90%) link.
- Learning React Native to develop a cross-platform mobile application to create and manage virtual contact information.
- Researched different development strategies for mobile development. Currently developing a cross-platform mobile application for a small business using the flutter framework as part of the third-year dissertation.

A LEVEL (A2)
Sleaford Joint Sixth Form (2015 – 2017)
Extended Project A, Electronics A, Computer Science B, Mathematics C

PROJECTS/EXTRAS

BJSS Hackathon (TTD Challenge)
- Competed in a hackathon, using paired programming with TDD to solve the provided coding challenge.
- Distributed tasks into writing tests for parts of the solution and writing code that passed the test before the roles were swapped.

Online Forum – UKBusas (Over 3,600 Users)
- Rescued a 15-year-old motorcycle forum by migrating the databases and uploaded content to a VPS.
- Maintain the forum's software along with regular database and forum backups.

Raspberry Pi Bathroom Controller
- Developed a Raspberry Pi driven bathroom controller with a web interface to control various bath and shower functions.
- Created a Python server script maintains the state of the connected devices.
- Created a Python client script that issues commands to the server script using network sockets.

PROGRAMMING LANGUAGES/SKILLS

Java	Python	PHP
JavaScript	MySQL	HTML, CSS, AJAX
Dart		
Git	Agile	TDD
Android Studio	Atom	Eclipse
Full UK Driver's License	ECDL	LINUX, Windows