

Dónal McManus

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PROFILE

I am a hard-working, innovative and creative person with a strong sense of responsibility and commitment to my work. Reliability and punctuality are traits I espouse and value highly. I take great pride in my professional appearance. My organisational skills coupled with my ability to work on my own initiative are intrinsic attributes. I have strong interpersonal skills and my disposition is invitational and calm. I enjoy working with people, as a team member and in leadership roles.

I recently finished the Level 8 degree in Computing at Technological University Dublin. My main aim is to put the skills and knowledge I have learned into practice in a dynamic workplace environment.

SIGNIFICANT PROJECTS UNDERTAKEN

> Odyssey

Description

A solo project working in conjunction with Guidewire to build a mentoring tool. This is a RESTful web application tool that allows employees to both become a mentor and receive mentorship. Scheduling functionality is in place to set up and track the progress of the mentoring process which can be viewed by both participants with managers having a dashboard for data analysis.

Challenges faced

Architecting an enterprise application that will scale and remain secure while retaining performance

Technologies & Tools

Jersey, Tomcat, JAX-RS, IntelliJ, Java, JavaScript, HTML, CSS, AWS, Hibernate, GitHub, Trello, Slack

> Android Library Application

Description

A Two-person team developed a RESTful web application and Android app which uses the service. This app focuses on displaying a list of books which is read from the database. The user is able to view what books are available in the library, order the books in ascending/descending order as well as search for a book by name, author or genre. Internationalization is a key feature, enabling use of the app in both English and Irish languages. Espresso tests were carried out for end to end testing of the application.

Challenges faced

Using Entity framework for a code first approach to manage data in the database

Technologies & Tools

ASP .Net Core, Azure, Java, C#, XML, Visual Studio, Android Studio, GitHub, Espresso Testing, Swagger

> DCL Systems

Description

A Three-person team developing a back-office management system. The system incorporated a database storing information on sales and stock levels of fuel. It enables the user to create reports and display several forms of graphs which graphically represent the data queried. A section for rostering was created with functionality that enabled saving and printing along with editing fuel prices and placing fuel orders.

Challenges faced

To insert the data into the graphs and output the data accurately.

Several people working simultaneously at the one time.

Technologies & Tools

Oracle VM VirtualBox, HTTP, Ubuntu, Java Play Framework, GitHub, Java, HTML, CSS

> Celeritas Arduino

Description

A first-year engineering project undertaken by myself and one other student. I designed and built the bot myself. It was programmed to follow the racing track by using the light sensors attached at the front.

Challenges faced

To get the bot moving fast and smooth as each motor worked and was programmed independently.

Technologies & Tools

Arduino Uno, H-bridge to drive to dc motors, speed is varied using PWM lines of Arduino, uses two Pololu reflectance sensors to follow the line, the chassis is made of foamboard, Tamiya gearbox and motors.

IT SKILLS

Modules Studied

- Software Development, Networking, Information Security, Software Quality Assurance and Testing, Databases, Object Oriented Analysis and Design, Computer Architecture, Operating Systems and Web Design & Development Advanced databases, Algorithms and Data Structures, Cloud Services & Distributed Computing, Data Analysis, Operating Systems, Web Application Development. Information Management, Applied Machine Learning, Enterprise Performance Architecture, Enterprise Applications Development

Modules Currently Studying

- Applied AI and Deep Learning, Algorithms and Computation, Computational Theory, Enterprise Application Development

Languages

- Proficient user of Java, C#, JavaScript, SQL, HTML, CSS with experience using Python, React, C++, Bash, Windows CLI, Cisco IOS, R

CAREER HISTORY

Software Development Intern, Guidewire Software

2018-March to September

I was on a three part rotational program which included a six week intern project led by two mentors where we built a tool for the upgrades team to assist them in very long searches through customised files. The end product was very successful and is now in deployment and saving a large amount of time for field consultants.

The second leg was spent with product development where I learnt frontend development practices in an agile environment. I used AngularJS, SCSS, HTML to create components which are now in production. I also wrote bash scripts to recursively delete old versions of applications according to a user input. I was part of code reviews using Git as a version control.

During the last section of the internship, I was in a consultancy role. My role was with the stabilization team handling defects on the customers project. I attended daily stand-up meetings with people from around the world. I got valuable experience with Guidewire's core products, both frontend and backend and I had exposure to Gosu. I also wrote scripts in bash to update my local code from SVN and start up my servers which saved over ten minutes every day and reduced human error.

Assistant Manager, Applegreen

2013-2019

I am a senior member of staff and perform a wide variety of duties. On weekends, I oversee the daily cash reconciliation, which includes filling and checking ATM, invoices, shop orders, electronic delivery notes and counting cash. Other roles I undertake are staff management; drawing up rosters; dealing with staff/customer complaints; stock checks and any emergencies as they arise.

ACHIEVEMENTS

- Elected Class Representative in both DIT and ITT
- Selected Captain of all sports teams played on for varying lengths
- Became supervisor in Applegreen within my first year and assistant manager shortly thereafter
- Full driving license
- Manual Handling Certificate
- HACCAP Certificate
- First Aid Training
- Fire Safety Training

EDUCATION & TRAINING

Degree of Bachelor in Computing (Level 8)
Technological University Dublin – Tallaght Campus

Current GPA: 3.3
2015-2019

Degree of Bachelor in Engineering (Level 8)
Technological University Dublin – City Campus

2012-2014

REFERENCES

Available on request