Danny O'Leary

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COMPUTER SKILLS

Programming Skills
- Developed an understanding and am proficient in the following languages: Java, Python, and Groovy.
- Developed an understanding and am currently learning the following languages: JavaScript, and PHP.
- Knowledge of full stack development.

Computer Security Skills
- Knowledge of different types of vulnerabilities and how to execute them.
- Developed scripts in Python and have knowledge on how to program securely to avoid vulnerabilities.
- Knowledge in modern day Cryptography and how data is encrypted.

Software/Technologies I have used
- Java
- React
- PHP
- Groovy
- ElasticSearch
- Swift
- Django
- MySQL
- Grails
- Python
- D3.js
- Git
- JavaScript
- Selenium
- Spring

EDUCATIONAL DETAILS

BSc in Computer Forensics and Security   **Waterford Institute of Technology: 2014 – 2018**

1st year subjects			
Web Development (HTML, and CSS)	83%	Discrete Mathematics	53%
Programming Fundamentals (Java)	85%	Introduction to Computer Forensics	72%
The Computer Industry	63%	Foundations of Computing	81%
Programming Fundamentals 2 (Java)	71%	Applied Calculus	52%
Computer Architecture	48%	Introduction to Computer Security	85%
Operating Systems (Windows, and Linux)	50%	Critical Thinking	76%
2nd year subjects			
Data Communications (Networking)	65%	System Forensics 1	75%
Legal Principles of Computer Forensics	65%	Information Modelling	56%
Algorithms (Java)	68%	Mathematical Methods	45%
Data Structures (Java)	63%	Internetworking	61%
Secure Coding and Scripting (C)	79%	System Forensics 2	77%
3rd year subjects			
Preparation for Work Placement	60%	Network Forensics	70%
Wireless Communications	51%	Development Operations (Python, and AWS)	75%
Applied Cryptography	69%	Component Development (JavaScript, and React)	73%
4th year subjects			
Formal Specification	75%	Criminal Evidence	65%
Network Forensics	67%	Artificial Intelligence	62%
Biological Authentication Systems	72%	Final Year Project	52%
Media Forensics	67%	Enterprise Development (Angular)	83%
Management Psychology	70%	Apple Macintosh Programming (Swift)	66%
Final Year Project 2	77%		

Post Leaving Certificate in Business and Computing   **Bridgetown Vocational College: 2013 – 2014**

Post leaving certificate successfully completed with nine distinctions (80 – 100%) and one merit (65 – 79%).

Leaving Certificate   **Bridgetown Vocational College: 2008 – 2013**

Leaving certificate successfully completed with honours in English and Mathematics.

Work Experience

Onaware, Maritana Gate, Canada St, Co. Waterford   **Intern Software Engineer: 4th January – 13th August 2017**

Responsibilities:
- Designing a web application for analysing data with customisable queries, and charts as part of a small team. In the last 2 months of my placement, I was the sole developer on the project. Some of the technologies that I had to work with day in day out were: Grails, Groovy, ElasticSearch, Selenium, Bootstrap, Jenkins, Mercurial, JavaScript, D3.js, and jQuery.
- Test-driven development approach to writing code.
- When working in a team, I was assigned tasks to complete in 2-week long sprints. For the last 2 months as the sole developer, I was responsible for sprint planning and completing the issues.

Skills Gained:
- Full stack development as part of a small team.
- Learned Groovy as a new programming language.
- Improved understanding of Java, JavaScript, MySQL.
- Learned Grails as a new web application framework.
- Learned to use ElasticSearch as a search engine.
- Gained an understanding of version control while working as part of a team.
- Learned about the following testing processes: integration tests, unit tests, and functional tests.

SuperValu Rosslare Co. Wexford   **Student on Work Experience: 2nd February – 16th February 2012**

Responsibilities:
- Working on the accounting system where I would have to input invoices into the various daybooks and trial balances on the company's computer system.
- I created the various price tags on the computer for the many different items on the shop floor.

Skills Gained:
- Communication skills gained by working with staff and helping other customers.
- Experience in working in a work environment.
- Demonstrating that I'm able to work independently.

Interests, Achievements, and Current Projects

Interests
- I have developed an interest in many different programming languages which I like to improve in my free time. Some of the things I do to improve my programming skills is participate in the https://www.codewars.com/ website where different challenges are given to you and then you have to complete them.
- I have completed the https://www.codeacademy.com courses in: HTML & CSS, JavaScript, Python, Java, and PHP.
- I participate in offline capture the flag games known as War Games which help practice security practices and penetration testing activities.
- Working on my own programming projects.
- Sports (GAA, and Soccer).

Achievements
- Nominated for a Sun Life Financial Enterprise and Innovation award for my final year project 'Semi-Autonomous Trend Detection using Real-Time Twitter Data'.
- Graduated with a first-class honours in Computer Forensics and Security from Waterford Institute of Technology.

Current Projects
- Continuing on my final year project to attempt to detect real time trends using Twitter data and display them on a web application.
- Text summarization using Machine Learning to combine with my final year project to create articles to display on the web application.

Referees

Mr. Sean Hanley CEO at Onaware, Maritana Gate, Canada St, Co. Waterford   **Tel:** 051-859510
Mr. John Sheppard Course Leader BSc Hons Computer Forensics & Security   **Email:** JSHEPPARD@wit.ie