**Patrick O'Donnell**

96 Sirius House, Falcon Drive, CF10 4RB, Cardiff, Wales

Phone: +447500383091

Email: [patrick.j.odonnell@hotmail.com](mailto:patrick.j.odonnell@hotmail.com)

Linkdin: ie.linkedin.com/in/patrickjamesodonnell

**Profile:**

I am a Cloud/Devops Engineer with 4 years’ experience in the multi-disciplinary role. I consider myself a strong analytical thinker and technology generalist, able to effectively solve problems using the best tools for the job. I strive to constantly learn and better myself and enjoy becoming proficient in new technologies and techniques in my spare time.

I work well in either self-directed or team environments, enjoy mentoring/ sharing my expertise with my team and have done volunteering work in the past teaching people programming skills

**Skills Summary:**

* Python (Pandas, Azure SDK, Matplotlib, Django)
* Terraform
* Docker exposure
* Ansible exposure
* CI/CD
* Kubernetes exposure
* Artifactory
* Atlassian suite (JIRA, Confluence, Bamboo)
* Amazon Web Services
* Microsoft Azure
* Some Windows/ Linux (SLES/ Ubuntu/ RH5-7) Administration
* Source Control (Git)
* Jenkins
* Azure Devops
* Relational databases (Azure SQL/ MySQ/ Postgres)
* Agile Workflow (SCRUM/ KANBAN)

**Education:**

2011 – 2015: **National College of Ireland:**

BSc (Hons) in Computing 2nd Class Honours Grade 1

(See Appendix for list of modules covered.)

**Work Experience:**

**Cloud Systems Engineer, W2GlobalData July 9th 2018 – Present**

* Writing Terraform modules for the automated deployment and provisioning of Microsoft Azure Infrastructure
* Writing automation scripts for provisioning tasks outside of the scope of Terraform (Bash/Powershell)
* Developing python tooling to assist/automate tasks (ie Azure resource inventory documentation, Terraform Orchestrator, Data Analysis and Report Generation)
* Mentoring junior team members
* Give presentations and demos of work done.
* Champion Devops and Agile best practices within the team and company
* Document and enforce standards and processes
* Design, document and manage build and release pipelines and configurations in Azure Devops (formerly VSTS)
* Design and document coding standards and best practices for Cloud Systems team
* Investigate and create proof of concept for new technologies and tooling.
* Manage and automate DNS maintenance.
* Investigating data provisioning as part of a DataOps best practices
* Take part in incident management and 24/7 on call rotas.
* Take part in cross functional project planning and training

**Devops/Software Engineer, SAP, Belfast Office September 14th 2017 – June 2018**

* Writing, testing and deploying features and bug fixes for our Cloud Frame Manager product suite in Django, Python and Shell.
* Taking part in code reviews
* Provide peer mentoring and technical support for junior team members
* Provisioning, deploying and testing Openstack nodes.
* Maintaining and creating docker containers for microservices.
* Orchestrating containerisation with Kubernetes
* Maintain Bamboo build and release pipelines
* Administrate and integrate with a PostgreSQL database

**Devops Engineer, Vela Trading Technologies, Belfast Office June 15th 2015 – September 8th 2017**

* Responsible for the maintenance and automation of our build and release process.
* Virtualise, monitor, maintain and add to our Linux/Windows servers including installing necessary packages and libraries to support code changes, new Visual Studio versions, ect.. as well as deploy them to the cloud
* Monitor and maintain the integrity of our SQL databases.
* Take part in a bare metal to cloud (AWS) migration
* Lead a team of interns to convert a SOAP based JIRA instance to a REST instance
* Write custom tooling using the JIRA API
* Assist with peer mentoring a documentation writing for junior members.
* Writing and maintaining Python scripts to automate day to day tasks such as ticket management, build steps and VM self-healing.
* Convert our products from using autotools/Make to CMake
* Setup Jenkins instances to manage build and release pipelines
* Administrate and automate git branching and tagging across all project repos
* Dynamically provision Docker containers as part of a build and release system.

Reference available on request

**Intern Software Engineer, Lincor Solutions Ltd. Dublin Office Jan 2014 – Jul 2014**

* Responsible for designing and developing new software to meet given requirements.
* Debug and fix problems within the existing code base across a range of technologies including HTML, Python, PHP and CSS.
* Set up support for proxy servers.
* Submitted detailed reports for bugs, including how I encountered the bug and how I fixed it.
* Personally, test developed code to an acceptable standard by writing Python Unit Tests.
* Liaise with the Quality Assurance team to aid their testing of code.
* Helped lead daily SCRUM meetings.
* Designed and implemented test cases for the Automated Testing System using Selenium and Robot Framework

**Personal**

I am a technology enthusiast and spend much of my time reading and learning about upcoming technologies and how I could use them to do something interesting. I am also an avid reader and game designer who enjoys 3D modelling and game development. I like project work and always have something on going whether it's making a new model, a game or writing a short story.

**Appendix:**

**Modules studied:**

**1st Year:**

• Introduction to Programming

• Introduction to Computers

• HTML and Web Design

• Introduction to Mathematics for Computing

• Personal and Professional Development

• Object Oriented Programming

• Computer Architecture

• Introduction to Multimedia

• Operating Systems

• Managerial Foundations of Information Systems

**2nd Year:**

• Introduction to Software Engineering

• Introduction to Databases

• Web Development

• Data Structures and Algorithms

• Business Entrepreneurship

• Object Oriented Software Engineering

• Advanced Databases

• Data Communications and Networking

• Information Technology and Project Management

• Project

**3rd Year:**

• Advanced Internet Technologies

• Team Project

• Introduction to Artificial Intelligence

• Wireless Networking

• Advanced Programming

**4th Year:**

• Final Project

• Change Management

• Network Programming and Distributed Systems

• Computer Graphics Design and Animation

• Strategy Management

• Multimedia and Mobile Application Development

• Applied Artificial Intelligence