

Philip Roche - CV/Resume

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PROFILE **Remote Senior Software Engineer**

I am an experienced engineer with a passion for developing software and technology that solve real problems.

- **LinkedIn:** <https://www.linkedin.com/in/philroche/>
 - **Github:** <https://github.com/philroche>
 - **Launchpad:** <https://launchpad.net/~philroche>
 - **Ubuntu membership:** <https://wiki.ubuntu.com/philroche>
 - **PyPi:** <https://pypi.org/user/Philip.Roche/>
 - **Snapcraft:** <https://snapcraft.io/search?q=philroche>
 - **Blog:** <https://philroche.net/>
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RECENT SKILLS

Languages: Python, Bash, Javascript

Tools: Git, Jenkins, CI/CD, DevOps, Test automation, Snap packaging, Python packaging, Django

Clouds: Google Compute Platform, AWS, Azure, IBM, Openstack

Other: Linux server administration, LXD containers, Docker, Kubernetes

Process/Soft skills: Agile, Kanban, Jira, Technical Leadership, Mentoring, Cross-Company, Technical Partnerships, Partner Communication, Disciplined remote worker, Committed team member.

EXPERIENCE

Canonical / Ubuntu - 2016 – Senior Software Engineer

I joined the Canonical Public Cloud (CPC) team at Canonical in May 2016. CPC are responsible for the building, publishing and testing of all the official Ubuntu cloud images in all supported public and private clouds. During my time with CPC I have been responsible for:

- Building and maintaining our Jenkins image build and publication systems using infrastructure-as-code (jenkins-job-builder).
- Building and maintaining a comprehensive suite of tools to monitor the health of the Ubuntu Cloud build and publication infrastructure

- Partner engagement with both management and engineers with all of the major public clouds.
 - Engaging with new cloud partners
 - Developing custom Ubuntu cloud images
 - Providing partner input on new/existing cloud services
 - Adding support for ARM64 on AWS
 - Adding support for Nvidia GPGPU on Google Kubernetes Engine
- Giving team knowledge share tech-talks
- Defining processes that ensure quality and focusing on continual improvement to our DevOps practices, documentation and Software Development Life Cycle (SDLC)
- Testing and delivering images to address critical and high priority CVEs
- Designing and specifying complex cross-team solutions to partners
- Defining, specifying, advocating for and prioritizing work
- Running retrospectives
- Onboarding and mentoring new staff members
- Filing bugs and contributing to many Canonical supported Open Source software projects, the most notable of which are:
 - [cloud-init](#)
 - [livecd-rootfs](#)
 - [simplestreams](#)
- Being responsible for the [official Ubuntu Docker image releases](#)
- Engineering lead for Ubuntu on Google Kubernetes Engine and Anthos
- Project lead for many Ubuntu new releases, most recently responsible for the Ubuntu 20.04 Focal Fossa LTS cloud images release

Connect Centre - Trinity College Dublin - 2016

Senior Software Engineer

I joined the Connect Centre as Software Engineer on a short term contract to work on their Pervasive Nation project, an Ireland-wide wireless network infrastructure to support Open Internet of Things.

Notable Achievements:

- Developing an OpenAPI for use with all IOT devices on the Pervasive Nation network. This included a front end for consuming all the data pushed to the API.

Coras.io - 2015 - 2016

Development Manager

Coras.io is a subsidiary company of TicketABC. It is an application to help in the management of ticket allocations. I joined as engineer/development manager/product owner. I was responsible for all aspects of development including managing a 5 developer strong remote team.

Coras.io's main feature is it's API built using Django Rest Framework. I was responsible for designing and building the API as well as managing the development of a Web UI to the API and also a cross platform mobile application which also uses the API.

Technologies used on Coras.io include: Python, Django, Django Rest Framework, Swagger, MySQL, Memcached, Nginx, Unicorn, RabbitMQ Server, Django Celery, Chef, AWS Opsworks, Amazon S3, AWS Cloudfront, JQuery, Backbone.js, CSS, Bootstrap, HTML5, LESS, Git, Selenium, CircleCI, Trigger.io, Jira and Slack.

TicketABC - 2009 - 2015

Senior Software Engineer

I joined TicketABC to develop their Django based white-label ticketing platform. I was responsible for the reporting dashboard, the cross platform mobile scanning app (ScanIn), most of the front end JavaScript, management of CSS, theming, the queuing system, the HTML5 seatmap editor, server side and client side caching, PDF generation, internationalisation, functional testing, planning the scaling and de-velopment of the rest of the application, hiring and mentoring of junior staff and project planning.

Technologies used at TicketABC include: Python, Django, JQuery, Backbone.js, MySQL, CSS, SemanticUI, HTML5, LESS, Git, Memcached, Apache, RabbitMQ Server, Django Celery, Django Tastypie, AWS, Amazon S3, Selenium, CircleCI, Trigger.io.

Tiny Viking software - 2010 - 2014

Self employed contractor

I was sub-contracted by matrixinternet.ie to work on a carer timesheet management system for the Irish Alzheimer's society. This was a Django application and allowed carers to enter their hours worked and who they were caring for at the time. Managers were able to view reports based on this data and export this data to payroll. The application also integrated with Salesforce which was used for managing all of Alzheimer Society's care home and client data.

matrixinternet.ie also sub-contracted me to build a number of applications for a betting company. These applications included betting odds aggregation system to aggregate betting odds from multiple bookmakers and provide an API for this aggregated data as well as a web front end. I also developed a betting offer application where users could enter various offers specific to sporting events. This application had an API for all this data which was consumed by third party applications as well as a cross platform (Phonegap) mobile application which I also developed.

Technologies used in these projects include: Python, Django, JQuery, Backbone.js, MySQL, CSS, Varnish, Apache, RabbitMQ Server, Django Celery, Django Piston, Django Tastypie, AWS, SQL Alchemy, Informatica and Phonegap.

Intel Ireland - 2009

Senior Software Engineer

I joined Intel as a .NET contractor as technical lead on an ASP.NET survey application. I also developed a windows desktop XML editing application using WPF.

Karova Ltd., North Wales - 2008 - 2009

Development Director

I returned to Karova in March 2008 as Development Director to manage development of all software and web projects.

Ammado, Ireland – 2007 - 2008

Software Design Engineer

In May 2007 I joined the Ammado working on a social network targeted at charities and people interacting with charities. The main technologies I used were C#, NET 2.0, WCF, SQLServer 2005, XHTML, CSS, Javascript and YUI Library.

Karova Ltd., North Wales - 2005 - 2007

Senior Software Developer

In March 2005 I started work for Karova, working with C# .NET, XML/XSLT, PHP, Python, CSS and XHTML, UML and database design. The projects I have worked on include KarovaStore, KarovaDonate, KarovaHost and KarovaFramework.

I worked on the following sites; WWF UK, British Heart Foundation, Woodland Trust Christmas store, Save the Children and others.

Rippleffect, Liverpool, UK – 2004 - 2005

Software Developer

I started work at Rippleffect as a Programmer/Web applications developer. Whilst there I worked on many high profile sites; Evertonfc.com, Revolution-bars.co.uk, SAFC.com and others. Whilst at Rippleffect the main technologies I used were PHP, MySQL, CSS, JavaScript, XML, XSLT and XHTML.

Self Employed Contractor, Sydney Australia - 2003

LAMP (Linux Apache MySQL PHP) consultant

I spent a year in Sydney working as a LAMP consultant working on the i-grafix.com website. This was an on site contract where my duties

included network management, web development (PHP, MySQL, JavaScript, HTML, CSS, Photoshop, XML, XSLT, and RSS).

EDUCATION Post-Graduate Diploma - 2010

University College Dublin, Ireland
Advanced Software Engineering - 1st Class Honours

Bachelor of Science - 1999 - 2003

Dublin City University, Ireland
Computer Applications (Software Engineering) - 1st Class Honours