

Andrew Pryde

curriculum vitae

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Experience

Professional

- Jan 2017–October 2023 **Consulting Member of Tehnical Staff, Oracle Cloud Infrastructure (OCI), Bristol**
I joined Oracle as a Senior Software Engineer and was promoted twice during my tenure there. In that time I worked on numerous public cloud services but primarily OCI Kubernetes Engine (OKE), OCI API Gateway, and OCI Container Instances.
- Named inventor on three granted US patents related to the implementation of public cloud services (US-11621888-B2, US-11650830-B2, US-12045210-B1).
 - Led the re-design and development of OKEs etcd customer controlplane datastore layer and resulting live migration.
 - Led the design and development of the OKE Management Plane.
 - Lead engineer on the OCI API Gateway Management Plane, porting many Kubernetes design patterns to Java.
 - Mentored selected engineers many of which achieved significant career progression.
 - Represented OCI in the Kubernetes Cloud Provider Special Interest Group (SIG).
 - Lead engineer on OCI Kubernetes Cloud Provider and CSI implementations.
 - Lead engineer on Oracle's Kubernetes MySQL Operator.
- Jan 2016–Jan 2017 **Technical Lead, The Mediae Company Ltd., Nairobi (remote)**
Took over the development of iShamba, Mediae's innovative SMS/call centre based agricultural information service for Kenyan farmers. Role involves backend development (Python), systems administration, technical project management, and team leadership.
- Designed and implemented a new CRM platform from the ground up.
 - Designed and implemented internal library for sharing core components within the company.
 - Directly managed both internal and external development resources.
 - Completely overhauled server infrastructure.
 - Scaled iShamba from tens of thousands of customers to many hundreds of thousands.
 - Made open source contributions to key project dependencies.
- Mar 2016–Present **Technical Director, RocketPod Ltd., Bristol**
Took over running of RocketPod as sole proprietor to continue to provide our client base with consultancy, maintenance, and hosting services.
- Feb 2013–Feb 2016 **Co-founder / Technical Director, RocketPod LLP., Bristol**
Web and software development, operations, project management, customer relations, and personnel management. Initially alongside study; full time from summer 2014.
Detailed achievements:
- Working with organisations such as the NHS, NBC Universal, Burton Snowboards, and The University of Bristol to develop innovative web solutions.
 - Developing software for desktop, the web, and mobile in Python, Objective-C, C#, Go, and Javascript.
 - Being developer zero at multiple award winning start-ups.
- Summer 2013 **Software Development Engineer in Test (intern), Microsoft, Dublin**
Writing software to enable testers to efficiently test content and software localised into the wide array of languages supported by Microsoft products.

- 2008–2013 **Freelancer**, *Pryde Design*, Oxford
Developed websites for small-medium enterprises, the public sector, and NGOs.
- Summers **Web Developer**, *Hydrant Ltd.*, Carlisle
- 2011–2012 PHP developer (using Drupal and Magento) on numerous projects for businesses, higher education institutions, and charities.
- Summer 2010 **Web Developer**, *Torchbox Ltd.*, Oxford
Worked as part of a team developing Drupal websites for large NGOs including Greenpeace UK and the Joseph Rowntree Foundation.

Education

- 2011–2015 **BSc. Computer Science**, *The University of Bristol*, Upper second-class Hons
A wide ranging degree program providing a firm understanding of numerous disciplines within Computer Science. During my studies I served as the course representative for Computer Science, holding a position the Student Staff Liaison Committee as well as a seat on the Students Union.
Note: Dissertation deferred until 2015, studies completed 2014.
- 2009–2011 **A Levels**, *Blessed George Napier Sixth Form*
A* Chemistry, A* English Literature, A Maths, A History

Undergraduate thesis

Implementing pooled cryptocurrency mining in Go

- Supervisor Dr. Daniel Page
- Description The project involved developing a tool designed to replace a critical piece of the cryptocurrency mining ecosystem. In addition, it involved analysing the suitability of the Go programming language for developing large scale concurrent applications.

Vocational

- 2014 **Lecturer**, *Fairfield High School*, Bristol
Designed and delivered a series of lectures and workshops titled "Learning Python on the Pi" to Year 8 students with no previous programming experience.

Languages

Go	Advanced	<i>Extensive professional experience developing both controlplane and dataplane services including Kubernetes controllers, operators, and dataplane agents.</i>
Java	Advanced	<i>Extensive experience building control plane services and infrastructure orchestration platforms for major cloud services.</i>
Python	Advanced	<i>Wide ranging experience implementing solutions across many domains including web development, information security, and machine learning.</i>
Clojure	Intermediate	<i>Professional experience developing web services and libraries.</i>
Objective-C	Intermediate	<i>Professional experience developing applications for both iOS and OS X.</i>
C#	Intermediate	<i>Professional experience developing both web and desktop software.</i>
C/C++	Academic	<i>Academic experience developing numerous projects including an ARM emulator, ray tracer, and many data structures and algorithms projects.</i>

Technologies / Skills

Engineering leadership:	Distributed systems architecture design, Peer mentoring, Incident response leadership	DevOps: Kubernetes, Containerisation, Linux, Public Cloud, Git
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Datastores: Etcd, MySQL, PostgreSQL, MongoDB, Redis, Elastic-search Frameworks: Django, Flask

Interests

- Home Improvements My wife and I have spent much of our free time over the last few years renovating and restoring our Victorian terrace property in Bristol. This has included doing my own woodwork, plumbing, electrics, and general construction.
- Cooking Cooking appeals to me much like programming in that it involves combining the right ingredients, executing the correct algorithm, and adding a dash of creativity into the mix.
- Photography Photography gives me a visually creative outlet replacing the design work that was once part and parcel of my freelance role.

References

Available on request