








## Brice Fernandes

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Summary	I am a talented and versatile technical leader with a broad range of expertise, I am looking for an engaging leadership or problem solving role that will leverage my experience and let me contribute to a culture of excellence and growth.		
Contact Information	 brice@fractallambda.com  +0044 7548312227  416 City Road Sheffield S2 1GD UK	 <a href="https://stackoverflow.com/u/140264">stackoverflow.com/u/140264</a>  <a href="https://fractallambda.com">fractallambda.com</a>  <a href="https://github.com/bricef">github.com/bricef</a>  <a href="https://twitter.com/fractallambda">@fractallambda</a>	
Skills	<p>LEADERSHIP &amp; MANAGEMENT: Customer Experience, Site Reliability engineering, Agile principles (Scrum, Kanban and Extreme Programming practices), SaaS, Software services operations, Lean production, Lean software development, R&amp;D leadership, Technical training and skill assessment, Full product development life-cycle, Delivery and operations, Data protection, Business modelling, Systemic innovation.</p> <p>PLATFORMS: AWS, Azure, GCP, Cloud Native, GitOps, Multi-cloud, Hybrid Cloud, Kubernetes, Docker, Prometheus, Grafana, Unix (GNU/Linux) administration, Virtualisation with VirtualBox and VMWare.</p> <p>SOFTWARE DEVELOPMENT: Functional Programming, Python, Javascript (ES6, React, Vue, NodeJS, Babel), Scheme, Clojure, Jython, Java (OpenGL in Processing, GUI), Shell scripting (Bash), DVCS (Git, Mercurial), C, F#, C#, Go, Unit Testing, Regular Expressions, Test Driven Development, RDF, Unity3D game engine, Firebase, Natural language processing (NLTK), WxWidgets (Python), Numpy and Matplotlib (MATLAB equivalent), Python Imaging Library (PIL/Pillow), Glib, GTK, Imagemagick, SNMP, HTML, CSS, Less/Sass.</p>		
Certification	<b>AWS Certified Solutions Architect - Professional</b> <b>AWS Certified DevOps Engineer - Professional</b>	Valid to September 2023 Valid to October 2023	
Education	<b>The University Of Sheffield</b> <b>BSc. Physics with Computer Science</b>	2006 - 2010	
Publications	<p><a href="#">The Evolution of Complementary Cognition: Humans Cooperatively Adapt and Evolve through a System of Collective Cognitive Search.</a> Taylor, H., Fernandes, B., &amp; Wraight, S. (2021). Cambridge Archaeological Journal, 1-17. doi:10.1017/S0959774321000329</p>		
Selected Talks	<b>SRE Best practices</b> <a href="#">Video</a> available	October 2020	
	<b>Delivering Quality at Speed with GitOps</b> <a href="#">Video</a> Available	August 2019	
	<b>Using and Abusing Ruby For Computer Science Great Good</b> <a href="#">Code</a> and <a href="#">slides</a> (PDF) available.	March 2017	
	More talks available on <a href="https://fractallambda.com">fractallambda.com</a>		
Languages	English, French (Native), Spanish (Basic)		

## Relevant Experience

**Senior Customer Experience Engineer at [Weaveworks](#)** September 2018 - Current  
Architected, developed and delivered hybrid cloud application platforms for some of our most high profile clients, including in multiple regulated industries. Responsible for both project technical leadership and client relationships.

Worked on all aspects of commercial engagements, from pre-sales to delivery management. Was responsible for the design and delivery of GitOps and Cloud Native training for clients and partners.

Key experience:

- Provided architecture consultancy for internal application platforms to global banks
- Led the design and architecture of the internal application platform to support the autonomous vehicle project of one of the world's largest company
- Led the initial design and architecture workshop for the re-platforming effort of a large European telecommunication provider
- Defined the principles of GitOps
- Trusted key-holder for critical internal systems
- Designed and implemented customer experience playbook
- Designed and delivered public and private Cloud Native training

KEYWORDS: *GitOps, Customer Experience, Delivery management, Kubernetes, Cloud Native, Pre-sales engineering, Monitoring, Observability, Digital transformation, SRE, Training, Recruitment*

**Senior Development Engineer at [Weaveworks](#)** September 2017 - September 2018  
Developed Go tools for managing Kubernetes. Helped define the GitOps methodology and communicate it to the developer community. Presented GitOps to conferences in the UK and internationally and delivered training on Kubernetes and GitOps. Member of the on-call engineering team directly responsible for the uptime and maintenance of our online SaaS platform.

KEYWORDS: *Kubernetes, GitOps, Cloud Native, Prometheus, Terraform, Go, On-Call, Incident response, DevOps, SRE, Developer Experience, Training, Recruitment*

**Founder at Decacoder** October 2015 - January 2017  
Founded an online education company delivering high quality online education to developers via a custom platform. I led the development of a scalable media delivery platform from scratch while also being responsible for all other business areas. I also set up a continuous integration and continuous deployment pipeline using AWS services, and was responsible for the educational design and user experience of all students using the platform.

KEYWORDS: *Product development, Leadership, Javascript, ES6, React, Babel, Firebase, Continuous integration, Continuous deployment, AWS, Gulp, Stripe, Education, UX*

**Startup Mentor & Coach, [Accelerate Cambridge](#)** 2013 - 2016  
I was selected to be a founding coach and mentor for the University of Cambridge Judge Business School startup accelerator Accelerate Cambridge. I delivered a startup founder education curriculum and coached teams on product design, technology strategy, development process, team management, pitching for investment and clear communication. Several of the startups I mentored received prestigious awards, including winning the Pitch@Palace competition.

KEYWORDS: *Startups, Coaching, Business modelling, Pitching, Leadership, Investment, Technology Strategy*

**Instructor & Coach, Ignite Program**

July 2015, July 2017

I was an instructor and coach for the University of Cambridge Judge Business School Ignite programme. The Ignite programme is a one week course aimed at transform existing early stage enterprises through high quality lectures and challenging workshops. I was responsible for leading workshops during the program, ensuring that each attendee adopted the knowledge shared into their business practice.

KEYWORDS: *Startups, Education, Coaching, Leadership, Event facilitation, Business Modelling*

**Founder, Cambridge Programmer Study Group**

July 2014 - December 2016

Founded the most active programming meetup in Cambridge, meeting twice a week to study computer science topics. Over two years we studied Machine Learning, Cryptography, Concurrency and Functional programming, amongst other topics.

KEYWORDS: *Machine Learning, Functional Programming, Scheme, SICP, Neural Networks, Cryptography, Concurrency, Computer architecture, Compilers, Interpreters, Community building*

**Instructor, F# developer course**

September 2015 - August 2016

Successfully kickstarted an online tutorial series on the F# programming language. Designed and delivered a curriculum that taught the real world applications the F# language and functional programming, including type-driven design.

KEYWORDS: *F#, Functional Programming, Education, Screencasting, Kickstarter, Video production*

**Instructor, Unity3D Development Course**

August 2014 - August 2015

Successfully kickstarted an online tutorial series on game development using the Unity3D game engine. Designed a curriculum to teach programming for game development in the C# language, including the fundamentals of computer science to a novice audience. The project was delivered over the Udemy.com online platform and reached over 100 000 students. The complete course was accredited for higher education credits and worth 10 European Credit Transfer System credits (~10% of an undergraduate degree).

KEYWORDS: *Education, Unity3D, C#, Game Development, Screencasting, Kickstarter, Video production*

**Software Engineer, Cambridge Broadband**

March 2011 - October 2013

Developed and maintained a wide range of software to enable and support a microwave backhaul product at Cambridge Broadband. Worked on cross platform graphical user applications, embedded C network management using SNMP, internal tools and existing product maintenance. Was also part of a process improvement team that re-designed the software and product development process for the company. Took responsibility for technical recruitment of C developers, drafting requests for quotes and selecting and managing contractors.

KEYWORDS: *C, PPC, Embedded, Python, Linux, GTK, SNMP, Process improvement, Agile, RFQ, Recruitment*

**Intern, Intelligent Systems Research Laboratory**

Summer 2010

Developed a Flow Based Programming framework to support an anomaly detection subsystem for the Intelligent Systems Research Laboratory at the University of Reading. Embedded Jython, Groovy, and Javascript programming languages in the Flow Based Programming Framework to enable application developers to work in their language of choice.

KEYWORDS: *Java, Groovy, Jython, Flow Based Programming, Embedded languages, JVM, Distributed computing, Machine Learning, Clustering, Anomaly detection*