Philip Cunningham Senior Software Developer

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% filib.io

GitLab (https://gitlab.com/philipcunningham)

GitHub (https://github.com/mcfilib)

ABOUT

Highly experienced, motivated and strategic senior software developer and technical lead with a Masters in Intelligent Systems followed by nearly 10 years experience leading effective teams and developing web-based applications. Accomplished in Haskell and Ruby whilst also holding expertise in a range of languages, frameworks and operations across all levels of the development lifecycle. Professional commitment to learning and development, openness and transparency, mentorship and collaboration to deliver excellence for clients.

</> KILLS Soft Skills Accountability Communication Leadership Perseverance Problem Solving Languages Ruby Elixir || Elm Haskell JavaScript Rust Frameworks AngularJS | Distributed Process | Express Rails |React | Spock Operations Ansible Balena Docker Heroku Jenkins Other

SUMMARY OF RELEVANT PROFESSIONAL EXPERIENCE AND ACHIEVEMENTS

Test Driven Development

Senior Backend Engineer, Secure, GitLab

Linux

April 2020 — Present

HSpec

Git

At GitLab I work on the open source version of GitLab, the enterprise editions, and the GitLab.com service as well.

Senior Software Development Consultant, Self Employed

PostgreSQL

RSpec

I provided expert consultancy to clients working in educational technology.

Senior Software Developer, Pirate Studios (https://www.piratestudios.co.uk)

July 2017 — December 2019

At Pirate Studios I developed the software that powers the world's largest network of fully automated, self-service, music studios. My primary role was leading development on backend services that powered our Facebook Live streaming and recording project, which includes a JSON API written in Ruby and a Haskell application running on Raspberry Pis in our music studios. Alongside this I was also actively involved in full stack development of our customer-facing Ruby on Rails application.

Senior Software Development Consultant, Self Employed

July 2017 — December 2019

Around my full-time work I also provided occasional expert consultancy and support to clients that included internationalisation and localisation strategy and implementation, integration with third-party APIs (e.g. Twilio voice, Canvas LMS and Podio), and upgrading legacy applications.

Web Application Technical Lead, IRIS Connect (https://www.irisconnect.com)

October 2015 — July 2017

At IRIS Connect I was promoted to provide technical leadership for an international software development team to deliver a unique and innovative online platform for teachers and other corporate clients providing continuing professional development and reflective practice opportunities for high-performing professionals.

Senior Web Application Developer, IRIS Connect (https://www.irisconnect.com)

February 2014 — October 2015

At IRIS Connect my primary role was developing a customer-facing Ruby on Rails application and integrating it with a JSON API written in Haskell. I was instrumental in the successful, ahead of schedule, rewrite of an existing web application and provided the company with a solid foundation in order to develop new and innovative features.

Web Developer, Codeface (http://www.codeface.com)

August 2010 — February 2014

At Codeface I worked in a small specialist team at a newly-established start-up company focussed on building web applications for a wide range of different clients using Ruby, PHP and JavaScript.

Musician, Self Employed

September 2008 — August 2010

After graduating in Applied Music from the University of Strathclyde, I worked as a musician and composer and toured the UK and USA, whilst also teaching myself how to program audio synthesis and generative composition, visual art and interactive installations using Arduino, Processing and Pure Data.



Advanced Haskell

2014 — 2014

Well Typed

Intelligent Systems, MSc

2011 — 2013

University of Sussex

Adaptive Systems Advanced Sound Synthesis Generative Creativity Intelligent Systems Techniques Object-Oriented Programming Language Engineering Machine Learning Real-World Cognition Sound Synthesis

Ruby on Rails Bootcamp

2011 — 2011

Manchester Digital Laboratories

Applied Music, BA

2004 — 2008

University of Strathclyde



PROJECTS, PUBLICATIONS AND PRESENTATIONS

Testing distributed-process Apps Using Hspec (https://filib.io/posts/2018-12-24-testing-distributed-process-apps-withhspec.html)

Dec 24, 2018

Experience report describing how I tested a distributed-process application.

Parse Ruby Objects in Haskell (https://filib.io/posts/2017-04-24-parse-ruby-objects-in-haskell.html)

Apr 24, 2017

Tutorial describing how to use ruby-marshal.

rails-session (https://github.com/iconnect/rails-session)

Apr 09, 2017

Decrypt Ruby on Rails sessions in Haskell.

i18n for Haskell Web Applications (https://skillsmatter.com/skillscasts/8770-i18n-for-haskell-web-applications)

Oct 06, 2015

Conference talk about using the Gettext approach to internationalisation in Haskell.

ruby-marshal (https://github.com/mcfilib/ruby-marshal)

May 08, 2015

Haskell library to parse a subset of Ruby objects serialised with Marshal.dump.

ribimaybe (https://github.com/mcfilib/ribimaybe)

Jun 08, 2014

Ruby library providing principled Maybe functor, applicative and monad.



INTERESTS

Health and Fitness

Music



English, Native speaker



— Available on request.