

Philip Cunningham

Software Developer

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🐙 GitHub (<https://github.com/mcflib>)

ABOUT

Philip is a senior software developer and technical lead working predominantly in web development using Haskell and Ruby.

EXPERIENCE

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

July 2017 — Present 🕒 2 years

Responsible for developing backend APIs written in Ruby with Grape; recording and streaming applications running on IoT devices in Haskell and monitoring services in Haskell.

- Built and deployed a Haskell application to Raspberry Pis in recording studios.
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Web Application Technical Lead, IRIS Connect (<https://www.irisconnect.com>)

October 2015 — July 2017 🕒 2 years

Responsible for developing customer-facing web application written in Ruby with Ruby on Rails, extending it with microservices written in Haskell and PureScript, deployments to Amazon AWS, code reviews and planning weekly sprints.

- Provided path for Ruby web application to be extended with Haskell services with minimal disruption.
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Senior Web Application Developer, IRIS Connect (<https://www.irisconnect.com>)

February 2014 — October 2015 🕒 2 years

Responsible for developing a continuing professional development (CPD) web application in Ruby with Ruby on Rails and integrating it with Haskell services, and dealing with deployments to Heroku.

- Delivered web application rewrite on schedule.
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Web Developer, Codeface (<http://www.codeface.com>)

August 2011 — February 2014 🕒 3 years

Responsible for developing Ruby on Rails applications, integrating them with Clojure services, and dealing with deployments to Heroku and Amazon EC2.

EDUCATION

Advanced Haskell

2014 — 2014 🕒 a day

Well Typed

Intelligent Systems, MSc (merit)

2011 — 2013 ⌚ 2 years

University of Sussex

Adaptive Systems Advanced Sound Synthesis Generative Creativity Intelligent Systems Techniques

Language Engineering Machine Learning Object-Oriented Programming Real-World Cognition

Sound Synthesis

Ruby on Rails Bootcamp

2011 — 2011 ⌚ 2 days

Manchester Digital Laboratories

Applied Music, BA (2:1)

2004 — 2008 ⌚ 4 years

University of Strathclyde

</> SKILLS

Languages

Elixir Elm Haskell JavaScript Ruby Rust

Frameworks

AngularJS Distributed Process Rails Scotty Spock The Elm Architecture

Operations

AWS Ansible Balena Docker Heroku Jenkins

Other

Git HSpec Linux PostgreSQL RSpec Raspberry Pi

PUBLICATIONS

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

Published on: 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>)

Published on: Apr 24, 2017

Tutorial describing how to use ruby-marshal.

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

Published on: 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>)

Published on: Oct 06, 2015

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

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

Published on: May 08, 2015

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

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

Published on: Jun 08, 2014

Ruby library providing principled Maybe functor, applicative and monad.

INTERESTS

Health and Fitness

Music

Skateboarding

LANGUAGES

English, Native speaker

REFERENCES

— Available on request.