Basile Henry

PERSONAL DETAILS

Born on 24th June 1994
bjm.henry+cv@gmail.com

EDUCATION

Electronics and Software Engineering (MEng Hons)
September 2012 — May 2017

University of Edinburgh, United-Kingdom

European Baccalaureate
July 2012

European School of Brussels 1, Belgium

LANGUAGES

- French — mother tongue
- English — fluent, 13 years
- Spanish — medium level, 6 years

WORK EXPERIENCE

Internship Myrtle Software
Summer 2016 & 2017

Software Developer

Myrtle is a technology company based in Cambridge, England.
Worked on the implementation of video analysis algorithms and CNNs running on FPGAs using functional programming.

Tutor at the University of Edinburgh
September 2016 — December 2016

Tutor

Gave tutorials for inf1-fp, the functional programming course offered to first year students in informatics.

Internship ICSA
Summer 2015

Research Assistant

ICSA (Institute for Computing Systems Architecture) is part of the School of Informatics at the University of Edinburgh.
Tested chips designed for VLC (Visible Light Communication).

YourTaximeter Ltd   March 2014 — December 2014

Android Developer

Designed and developed the Android app

Electrician assistant   August 2013

Assistance to a professional electrician

Installation and maintenance of electrical systems in private housing

HACKATHONS

Future Libraries Product Forge   October 2016

Programming competition on the theme of libraries of the future

Won first prize with my team on a project exploring the gamification of the library. The project consisted of an Android app for the user, a Java application for admin purposes and a Haskell web server using a SQL database.

Smart Data Hack   February 2013 & 2014

Programming competition in the University of Edinburgh

Participated in the contest twice:

- Design of an interactive map using Skyscanner's data, JavaScript project
- Won an award for the design of an interactive map using data from the Scottish Parliament — Website

COMPUTING SKILLS

- Programming languages:
  - Working knowledge: Haskell, Elm, Python, Java, C
  - Basic knowledge: C++, Rust, Assembly (MIPS, ARC EM), Verilog, VHDL
- Proficient with GNU/Linux and Windows
- Some of my university projects include:
  - designing an 8-bit microcontroller on an FPGA with a custom instruction set and several devices (VGA screen, PS2 mouse, IR transmitter)
  - writing a full compiler for a subset of the C language targeting the JVM.
  - writing a simple kernel module for the linux kernel
  - building an automated robot that plays football (guided by a camera on top of the field)
  - making a raytracer (with reflection, refraction and Phong shading)
  - animating a 3D model with its skeleton using skinning algorithms

HOBBIES

- Badminton, Basketball
- Music: Guitar, Piano, Drums, Music theory — 5 years each

OTHER

- Full driving licence
- First aid certificate