

# Lorenzo Stoakes

## Curriculum Vitæ

### WORK EXPERIENCE

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#### GPU GRAPHICS SYSTEM SOFTWARE ENGINEER, IMAGINATION TECHNOLOGIES

DECEMBER 2016 – PRESENT

#### SENIOR SOFTWARE ENGINEER, RESIN.IO

MARCH 2012 – DECEMBER 2016

I joined resin.io shortly after it was founded and have worked in a number of different roles within the company – front and back end web development using JavaScript (node.js on the backend), hiring, managing our support department for a year, development and maintenance of portions of our on-device supervisor and Linux distribution, as well as contributing a number of bug fixes and ports in C and Go to various tools we rely on.

My main focus was on devices – in the early years of the company I was part of the team who ported Docker to ARM, and more recently I discovered and fixed a bug in the Raspberry Pi userland tools allowing for GPU usage within containers which was merged into mainline, as well as a fix to a Docker dependency for ARMv5 devices.

#### SOFTWARE DEVELOPER, MAPLE SECURITIES UK

JULY 2007 – MARCH 2012

At Maple Securities (a proprietary investment bank) I worked on a number of systems relating to the front and back office using C# and SQL Server for assets ranging from stocks and bonds to exotic financial instruments.

One of the key projects I developed at Maple was a compliance trade reporting system implementing an innovative rule-based system, allowing for significant flexibility in adding and modifying rules to keep up with the ever-changing regulatory landscape.

#### GRADUATE SYSTEMS DEVELOPER, PARSONS BRINCKERHOFF

NOVEMBER 2005 – JULY 2007

At Parsons Brinkerhoff I pioneered the use of .net and C# for developing internal software tools.

### SKILLS

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**Languages** C, Go, JavaScript, Bash

**Technologies** Linux, Linux Kernel Development, Docker, Qemu, Node.js, PostgreSQL, git, .net

✉ | lstoakes@gmail.com  
📄 | ljs.io

### EDUCATION

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#### 2005 MEng Civil Engineering

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*Imperial College, London*

#### 2000 A-Levels

A – Physics, Maths, Further Maths

B – Economics (As)

*Exeter College, Exeter, Devon*

#### 1998 GCSEs

3 A, 3 B, 3 C

*St. Lukes High School, Exeter, Devon*

### OPEN SOURCE

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See [ljs.io/patches](https://ljs.io/patches) for a full list.

#### LINUX KERNEL

*30 contributions*

I've contributed patches to the memory management subsystem, Silicon Motion 750 Frame Buffer chipset driver (SM750FB), Realtek 8192 USB Wifi chipset driver (RTL8192U) and I fixed an issue where gcov failed for GCC versions 5.1 and above.

I also completed the Eudypytula Challenge (less than 1% of people who start finish it) which covers driver development, kernel memory management, debugfs, sysfs, system calls, kernel threads, networking and file systems.

#### CHROMIUM (CHROME) BROWSER

*7 contributions*

I contributed a fix to correct DOM element FocusIn/FocusOut event behaviour (this issue was capable of causing a browser crash) as well as a number of Mac-specific and visual fixes.

#### GO PROGRAMMING LANGUAGE

*4 contributions*

I made contributions to the core Go compiler, specifically handling recursive types correctly and fixing a number of incorrect error messages.

### REFERENCES

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References are available upon request.