

# Lorenzo Stoakes

✉ | lstoakes@gmail.com  
📄 | ljs.io

## WORK EXPERIENCE

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### SOFTWARE ENGINEER, SQUAREPOINT CAPITAL

MARCH 2019 – PRESENT

At Squarepoint Capital I work as a C++ developer maintaining low-latency software for algorithmic trading with a focus on order management and market connectivity in equity and derivative asset classes.

### SOFTWARE ENGINEER, IMAGINATION TECHNOLOGIES

DECEMBER 2016 – MARCH 2019

At Imagination Technologies I worked as a C developer on the GPU linux kernel driver implementation where I was solely responsible for driver development on new memory management hardware and significantly optimised driver code.

I was responsible for the kernel implementation of the the Hypervisor MMU, providing an API for the second-stage MMU implementation and interacting with the hardware team to both validate the hardware and to make architectural changes where necessary. In optimising the driver I was able to provide a 100% speedup in the core code path.

### SENIOR SOFTWARE ENGINEER, BALENA

MARCH 2012 – DECEMBER 2016

I was employee #1 at Balena shortly after it was founded and worked in a senior position as it grew from 3 to 30+ employees and received multiple million-dollar rounds of funding. I developed code in C, Go, and Javascript.

My technical focus was devices, specifically adapting Docker to work correctly on ARM devices. I was half of the team that ported Docker to ARM, was solely responsible for porting it to ARMv5 and adapted the Raspberry Pi codebase to interact with its GPU correctly in a containerised environment.

I conducted nearly all technical interviews at the company (around 260) growing the team from 3 to 30.

I built out and ran the customer support team to great success scaling from a handful of clients to hundreds.

### SOFTWARE DEVELOPER, MAPLE SECURITIES UK

JULY 2007 – MARCH 2012

At Maple Securities I worked on a number of front and back office using C# for a wide range of asset classes.

### GRADUATE SYSTEMS DEVELOPER, PARSONS BRINCKERHOFF

NOVEMBER 2005 – JULY 2007

## 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

*32 contributions*

I've contributed patches to the memory management subsystem (interacting with Linus himself!), Silicon Motion 750 Frame Buffer chipset driver (SM750FB), Realtek 8192 USB Wifi chipset driver (RTL8192U) and much else.

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 other fixes.

### GO PROGRAMMING LANGUAGE

*4 contributions*

I made contributions to the core Go compiler, most notably allow it to handle recursive types correctly.

## SKILLS

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**Languages** C++, C++, Go, Python

**Technologies** Linux, Linux Kernel Development, git