

# Samuel Stone

SOFTWARE ENGINEER

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## Work Experience

### Goldman Sachs

London, UK

SOFTWARE ENGINEER

July 2015 - Present

- Built and maintained applications and web services used both internally by traders and by external hedge fund clients to support the firm's securities lending business.
- Expanded upon the work I did as an intern, developing a system to deploy application binaries to J2EE enterprise application servers automatically, replacing the existing manual process.
- Implemented a system which pulls time tracking data from internal time booking systems and other sources and exports it to an Elasticsearch instance so that it can be queried and visualised, allowing for data-driven insights into the support cost and efficiency of the services we develop.

### Goldman Sachs

London, UK

SOFTWARE ENGINEERING INTERN

Spring 2013, Summer 2014

- Developed a system for configuring J2EE application server instances as specified in version controlled, text based representations of the environment, replacing an existing process where developers manually configured servers through a web console.

## Education

### University of Nottingham

Nottingham, UK

COMPUTER SCIENCE · DISSERTATION: AN ANALYSIS INTO THE SECURITY IMPACT OF JAILBREAKING iOS DEVICES

2011 - 2015

- First class MSci (undergraduate masters degree) with honours.
- Demonstrated weaknesses in the jailbroken iOS security model by writing a malware which injects itself into an iPhone's messaging application and exfiltrates message information.
- Offered a partial solution by developing tools to analyse the behaviour of software running on jailbroken devices, and a proof of concept privilege based package manager for safely installing software on jailbroken devices.

## Projects

### Jailbroken iOS Development + Reverse Engineering

Developed a number of products for jailbroken iOS devices which are injected into other apps and use the Objective-C runtime to modify and extend them. Cumulatively received hundreds of thousands of downloads.

Examples include additional touch gesture support in Safari (SafariSwiper), automatic transformation of ASCII smileys into emoji in Messages (SMSmileys), and native support for TwitLonger tweets in the official Twitter app (TweetLonger).

### ChitChat

A year before WhatsApp released their own desktop app, I built a Mac client based on embedding WhatsApp Web and using Apple's WebKit framework to bridge the application to native OS features such as Notification Center and keyboard shortcuts. Featured on Reddit, Product Hunt, OS X Daily and other popular sites, and was downloaded almost 1,000,000 times.

### Kwik Kontrol for Kodi

Built an app which allows you to quickly control your home media devices from your iPhone's Notification Center or your Apple Watch, using JSON RPC APIs to send commands to and retrieve data from the media player. Downloaded over 25,000 times.

## Skills

### Used Frequently:

- Python
- Java
- Objective-C

### Intermediate:

- SQL
- Elasticsearch
- FreeMarker
- Bash
- Javascript

### Previous Experience:

- HTML / CSS
- C / C++
- Swift
- AngularJS
- Haskell