

# satana's cv

## TL;DR

Name: *Satana*. Pronouns: *she/her*. *Self-taught hacker*, *C* programmer and *GNU/Linux* user since 1999. *Versatile software engineer* with *10 years in the industry*. *Ruby on Rails* developer with experience in *large scale distributed systems*. *Contributes to Free and Open Source Software*. Excels at *debugging*, *explaining*, *optimising*, *abstracting* and *simplifying*. Likes *kind*, *concise* and *direct communication*. Amateur *video games developer* influenced by *0x5f3759df*. Speaks Portuguese and English. Based in London. Latest *CV* and *portfolio* at [satana.skylittlesystem.org](https://satana.skylittlesystem.org). Email: [satana@skylittlesystem.org](mailto:satana@skylittlesystem.org).

## Links

- [CV \(HTML\)](#) • [Portfolio](#) • [GitHub](#) • [LinkedIn](#) • [Email](#)

## Experience

### 2021-present - GitHub

As a *senior software engineer*, I contributed to *low-level* and *wide-impacting* parts of GitHub's platform, improving *performance*, *efficiency*, *security*, *observability*, and *maintainability*, and assisting teams with documentation and guidance in those areas.

### Highlights

- Consolidated GitHub and GHES build scripts for *security* and *maintainability*
- Migrated DataDog from UDP to UDS allowing network *error reporting*
- [Supported DataDog ownership with expertise in performance](#)
- [Debugged libcurl and Trilogy errors by patching OpenSSL to get C stack traces in Ruby](#)
- Upgraded the *GNU/Linux* distribution for *security* compliance
- Won the first company-wide *security CTF* in a team of 4 colleagues
- [Supported MySQL sharding with optimisations to Vitess](#)
- [Fixed DataDog metric corruption and optimised dogstatsd-ruby](#)
- [Fixed a vulnerability worth \\$20k and presented in security training](#)

### 2018-2020 - Unboxed

As a *full-stack software developer*, I worked in *cross-functional teams* using an *Agile* methodology to create and extend bespoke *Ruby on Rails* applications for the *UK's government*.

### Highlights

- [Proposed a scalable Rails pattern for dynamic user-designed schemas](#)
- *Led engineering* of the *Remote Monitoring MVP* for *Guy's and St Thomas Trust*
- *Led (reverse-)engineering* of *Repairs HUB* for *Hackney Council*
- Upgraded *Ruby on Rails* for *GDS (Government Digital Services)*
- Contributed to *UK Parliament Petitions* with bug fixes and improvements

- Supported creation of *Welsh Parliament Petitions* with i18n support
- Contributed to *design* of *BOPS (Back Office Planning System)* for the *Southwark Council*
- Encouraged *growth of junior developers* through *pair-programming* and *code reviews*

## 2018-2018 - AIS Digital

As a *backend software developer*, I integrated *SOAP Webservices* and *REST APIs*, and *debugged* their BI product's database access patterns and *performance*.

## 2017-2017 - Wololo

As a *backend software developer*, I developed a *Ruby* backend with *REST APIs* to serve their web and mobile clients.

## 2016-2017 - Papo de Homem

As a *freelancer full-stack software developer*, I created public *REST APIs* on their *Ruby on Rails* website to serve their new mobile app, and provided on-call support for incidents.

## 2011-2014 - Bebop

As an *intern software developer and tech generalist*, I contributed to multiple projects involving *electronics, IoT, computer graphics, computer vision and web applications*.

## Highlights

- Learned *Ruby on Rails* and *Java* developing *LambLamb*, an Instagram printer
- Created interactive VJ effects using *OpenGL* and *OpenCV*
- *Optimised performance and graphics* of multiple projects
- *Presented* and *supported* projects during exhibitions and events

## Courses

- 2020 - [AWS: Certified Cloud Practitioner](#)
- 2017 - *Coursera/Princeton*: Bitcoin and Cryptocurrency Technologies
- 2016 - [Coursera/Stanford: Machine Learning](#)
- 2012 - *TECHtraininG*: MSP430 microcontroller with FRAM memory
- 2011 - *UnB/IEEE*: Arduino Hack Day
- 2009 - *UnB*: half BSc in Mathematics (dropped out)
- 2006 - [Linux From Scratch](#) ([LFS 6.2](#) and [BLFS 6.0](#))
- 20?? - [CodeSourcery: Advanced Linux Programming](#)
- 1999 - [UFMG: Curso de Linguagem C](#) (as a book)