Pudim | Software Developer

London – United Kingdom

☐ +44 7376 026007 • ✉ rogi@skylittlesystem.org • ⌗ pudiva • in pudiva

0x5f3759df

Summary

Pronouns **she/her**. **Self-taught** hacker, **C** programmer and **GNU/Linux** advocate since **2000**, and professional **Ruby on Rails** developer since **2012** (**8 years ago**). Moved to **London** in **2019** to work as a developer. Believes that software development should be **driven by people's needs**. Experienced at **designing** and **implementing software**, as well as deploying **cloud infrastructure** (**AWS**), learning new skills on the go and teaching others as required. Fluent in **Portuguese** and **English**.

Skills: ○ **C** ○ **Ruby on Rails** ○ **GNU/Linux** ○ **AWS** ○ **SQL** ○ **libSDL** ○ **OpenGL** ○ **Git** ○ **Vim** ○ …

Professional Experience

Unboxed   **London, United Kingdom**
*Fullstack **Ruby on Rails** Developer*   *2018–2020*
- Effectively worked in **Agile** teams, collaborating with designers, product owners, end-users and other stakeholders
- Led developers in two projects for the public sector
  - developing a patient remote monitoring **MVP** for the *Guy's and St Thomas' NHS Foundation Trust*
  - extending a housing repair management system for *Hackney Council*
- Participated in a number of other projects, including
  - updating **Ruby on Rails microservices** for the *Government Digital Service*
  - translating of the *UK Parliament petitions website* for the *Welsh Parliament*
  - a discovery phase on how to improve the processing of development planning applications for *Southwark Council*
- Part of the 24h **customer support on call** team, monitoring critical applications and **AWS** infrastructure
- Taught junior developers

AIS Digital   **Brasília, Brasil**
*Backend **Java** Developer*   *2018*
- Integrated enterprise **SOAP Webservices** and **REST APIs**
- Debugged and optimized the company's BI product

Wololo   **Recife, Brasil**
*Backend **Ruby** Developer* (*contractor*)   *2017*
- Modelled the application business logic and database
- Designed and implemented the application's **API**

Papo de Homem   **Remote Brasil**
*Fullstack **Ruby on Rails** Developer* (*contractor*)   *2016–2017*
- Developed a public **API** and implemented push notifications for mobile clients
- Responsible for **technical support**

Bebop   **Brasília, Brasil**
*Intern **Polyglot** Developer*   *2011–2014*
- Worked in multiple projects involving **electronics**, **IoT**, **computer graphics** and **computer vision**
- Participated in the development of *LambLamb* — an automated **Instagram** printer (**Java**, **Ruby on Rails**)
- Presented projects to users and provided technical support during exhibitions

Courses and Certifications

Amazon Web Services
Certified AWS Cloud Practitioner   *2020*

Princeton (Coursera)
Bitcoin and Cryptocurrency Technologies   *2017*

Stanford (Coursera)
Machine Learning   *2016*
- https://www.coursera.org/account/accomplishments/verify/NE32SCRBV3F6

TECHtraininG
MSP430 microcontroller with FRAM memory *2012*
IEEE
Arduino Hack Day *2011*

Personal Projects

Em Edificação (videogame)
Authoar and developer *2006–Now*
Em Edificação – translated *Edification* – is a 3D videogame written from scratch in **C** using **libSDL** and **OpenGL**. My biggest personal project, on which I've been working on and off throughout many years.

○ Implemented a **Solid Leaf BSP Tree** compiler for collision detection and polygon sorting
○ Implemented a **Sequential Impulse** solver for real-time physics simulation
○ Ported to **Linux** and **Android** and modern browsers with **WebGL** – thanks to **Emscripten**

Newest version still to be made public, but older incarnations can be found at:

○ https://github.com/pudiva/teh_engine
○ https://github.com/pudiva/engine-on-Qua-Ago-29-09_42_48-BRT-2007

Rogix/Gordax
Co-Author and developer *2006–2011*
A multilib **GNU/Linux distro** for x86_64 inspired by the *Linux From Scratch* book, motivated by an insatiable desire to control one's own computer and build everything from source.

○ Designed and implemented
  - a package manager
  - multilib header file wrappers
  - bootscripts
  - a build script framework
○ Built a myriad of binary software packages (including **gcc**, **glibc** and **X11**) from source
○ Used as main OS for **~5 years** — until it's host computer passed away

Some of it's source code was salvaged and is available at:

○ https://github.com/pudiva/rogix_gordax

Some Contributions to Free/Open Source Software

Git **C language, shellscript**
mergetools: add support for nvimdiff (neovim) family *2020*
○ https://github.com/git/git/commits?author=pudiva
○ https://public-inbox.org/git/20200718192001.27434-1-rogi@skylittlesystem.org/

Emscripten **C language, Python**
Add MP3 support to SDL2_mixer *2020*
○ https://github.com/emscripten-core/emscripten/pulls?q=author%3Apudiva

SDL_image **C language**
Fix XPM having white as color key (transparency) *2020*
○ https://hg.libsdl.org/SDL_image/rev/082214c629d1
○ https://bugzilla.libsdl.org/show_bug.cgi?id=4964

Gimp **C language**
Fix #4560 - file-xpm saving unused transparency *2020*
○ https://gitlab.gnome.org/GNOME/gimp/-/commit/22bedfc3

govuk_schemas (Government Digital Service) **Ruby**
Fix RandomSchemaGenerator.new always returning equivalent generators *2020*
○ https://github.com/alphagov/govuk_schemas/pulls?q=author%3Apudiva

UK Parliament petitions **Ruby**
Forbid URIs on signature names *2020*
○ https://github.com/alphagov/e-petitions/pulls?q=author%3Apudiva

Active Graph (Neo4j.rb) **Ruby**
Fix wait_for_connection not waiting for connection *2020*
○ https://github.com/neo4jrb/activegraph/pulls?q=author%3Apudiva