Pudim | Software Developer

London – United Kingdom

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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
  - developed a patient *remote monitoring MVP* for *GSTT* (*Guy's and St Thomas' NHS Foundation Trust*)
  - extended *Repairs Hub* – an application for managing housing repair tickets used by *Hackney Council*
- ○ Participated in a number of other projects, including
  - updated **Ruby on Rails microservices** for *GDS* (*Government Digital Service*)
  - implemented **i18n** (**internationalization**) of the *UK Parliament petitions* for use as the *Welsh Parliament petitions*
  - developed the **alpha phase** prototype of *BOPS* (*Back Office Planning System*) 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** within a large insurance company
- ○ Debugged and optimized the company's BI product by analyzing its database usage patterns

Wololo — **Recife, Brasil**
*Backend **Ruby** Developer* (*contractor*) — *2017*

- ○ Modelled the first version of the application's business logic and database schema
- ○ Designed and implemented the application's **API** for use by its web and mobile clients

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)
Author 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 its host computer passed away

Some of its 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