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 with 6 years of experience**. Experienced at **collaboratively designing and implementing software** tailored to **optimize customers' business objectives**, learning and exchanging skills with others on the go. Believes that software development should be **driven by people's needs**. Fluent in **Portuguese** and **English**. Moved to London in 2018 looking for new challenges.

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 with local government

- developed the *Remote Monitoring MVP* for the *Guy's and St Thomas Trust*, to help clinicians remotely monitor their patients
- extended *Repairs Hub*, used by *Hackney Council* to track housing repair tickets, by **reverse-engineering** legacy systems

○ Worked as a developer in other projects with the public sector

- performed **Rails upgrades** on *GDS* (*Government Digital Service*) **microservices**
- 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
○ Encouraged the growth of junior developers through **code reviews** and **pair programming**

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 database usage patterns

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

○ 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
○ Provided **technical support on call**

Bebop   **Brasília, Brasil**
*Intern **Polyglot** Developer*   *2011–2014*

○ Worked in multiple projects involving **electronics**, **IoT**, **computer graphics** and **computer vision**
○ Co-developed *LambLamb* — an automated *Instagram* printer (**Java**, **Ruby on Rails**)
○ **Optimized** projects' graphic **performance** and **quality**
○ 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 **complex mathematical algorithms**

  - a **Solid Leaf BSP Tree** compiler to **optimize** collision detection and polygon sorting
  - a **Sequential Impulse** solver for fast real-time physics simulation
  - a **BVH** (Bounding Volumes Hierarchy) tree to **optimize** collision queries

- 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 from old backups and is available for amusement 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`