

# 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** ○ **LaTeX** ○ ...

## 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/NE32SCREBV3F6>

## TECHtraininG

MSP430 microcontroller with FRAM memory

2012

## IEEE

Arduino Hack Day

2011

## Personal Projects

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### 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/teh_engine)
- [https://github.com/pudiva/engine-on-Qua-Ago-29-09\\_42\\_48-BRT-2007](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](https://github.com/pudiva/rogix_gordax)

## Some Contributions to Free/Open Source Software

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### Git

*mergetools: add support for nvimdiff (neovim) family*

- <https://github.com/git/git/commits?author=pudiva>
- <https://public-inbox.org/git/20200718192001.27434-1-rogis@skylittlesystem.org/>

C language, shellscript

2020

### Emscripten

*Add MP3 support to SDL2\_mixer*

- <https://github.com/emscripten-core/emscripten/pulls?q=author%3Apudiva>

C language, Python

2020

### SDL\_image

*Fix XPM having white as color key (transparency)*

- [https://hg.libsdl.org/SDL\\_image/rev/082214c629d1](https://hg.libsdl.org/SDL_image/rev/082214c629d1)
- [https://bugzilla.libsdl.org/show\\_bug.cgi?id=4964](https://bugzilla.libsdl.org/show_bug.cgi?id=4964)

C language

2020

### Gimp

*Fix #4560 - file-xpm saving unused transparency*

- <https://gitlab.gnome.org/GNOME/gimp/-/commit/22bedfc3>

C language

2020

### govuk\_schemas (Government Digital Service)

*Fix RandomSchemaGenerator.new always returning equivalent generators*

- [https://github.com/alphagov/govuk\\_schemas/pulls?q=author%3Apudiva](https://github.com/alphagov/govuk_schemas/pulls?q=author%3Apudiva)

Ruby

2020

### UK Parliament petitions

*Forbid URIs on signature names*

- <https://github.com/alphagov/e-petitions/pulls?q=author%3Apudiva>

Ruby

2020

### Active Graph (Neo4j.rb)

*Fix wait\_for\_connection not waiting for connection*

- <https://github.com/neo4jrb/activegraph/pulls?q=author%3Apudiva>

Ruby

2020