Jordi Gutiérrez Hermoso

+1 (438) 794 3897   jordigh@octave.org
http://jordi.inversethought.com   https://github.com/jordigh
Montréal, Canada

Work Experience

Senior Software Developer
Mar 2022 - Jun 2023

NEW RELIC

Maintained the Node.js APM agent, all publicly on Github

- Addressed bugs and feature requests via open source workflow
- Identified and fixed data reporting gaps during regular tier-3 customer support rotations
- Reduced release times in our CI Github Actions infrastructure
- Improved knowledge transfer via demos and documentation of new features

Full Stack Senior Software Developer
Aug 2015 - Feb 2022

ECOMETRICA

Design Django web apps for accounting greenhouse gas emissions and ecological geographic data

- Full stack maintenance of the emission factors PostgreSQL database and associated Django web app
- Modified GHG emissions calculation algorithms to drastically reduce loading times from several minutes to a few seconds
- Improved the AWS automation for faster deployments and better automatic scaling
- Implemented caching and load-balancing optimisations in par with customer demand
- Mentored team members on Unix, git, Python, and other fundamentals, as well as on the architecture of our own software

Software Developer
Dec 2011 - Jul 2015

NEURORX

Develop software for medical data acquisition and processing

- Automated data collection and reporting of data quality metrics, reducing to minutes what manually used to take days
- Migrated Perl data processing scripts to Python, thereby reducing the frequency with which bugs were being introduced and increasing their maintainability
- Wrote the Wikipedia Medcouple article in order to disseminate knowledge on outlier detection W https://en.wikipedia.org/wiki/Medcouple

Java Programmer Analyst
October 2010 - November 2011

BLUEMESSAGING

Identify and implement natural language processing algorithms

Linux, C and C++ Integration Engineer
Jan, 2010 - Nov 2010

SEGURIDATA

Integrate cryptographic products written in C and C++ for RedHat and SUSE Linux platforms

C++ Programmer Analyst
Jan, 2009 - Dec, 2010

OPTENET

Developed multithreaded C++ process monitor in a Linux and general Unix environment, management of build scripts in Perl

C++ Programmer
Jun 2008 - Dec 2008

SERPRONET

C++ coding and BSD administration

| Open Source Work | **Developer** | 2010-2015 |
| | GNU OCTAVE | |

Numerical GNU-style C++ programming, bug fixes, code review, mailing list help, and implementing new features

🌐 `https://hg.octave.org/octave/log?rev=jordi&revcount=80`

| | **Contributor** | 2011-2022 |
| | MERCURIAL | |

Bug fixes and irregular contributions

🌐 `https://mercurial-scm.org/repo/hg?rev=jordigh&revcount=80`

| Education | **Centro de Investigación en Matemátics (CIMAT), Guanajuato, México** | 2005 - 2007 |
| | MSC SPECIALISING IN APPLIED MATHEMATICS | |

Coursework only

| | **McGill University, Montréal, Canada** | 2000 - 2004 |
| | BACHELOR OF ARTS | |

Honours Concentration in Mathematics, First Class Honours

Skills

OSes : GNU/Linux, *BSD, Unix, POSIX
Databases : PostgreSQL, MySQL, SQLite, SQLAlchemy, Mongo, Prisma, Redis
Compiled : Rust, D, C++ (with Boost), C, Java, Haskell
Dynamic : Node.js/Javascript/Typescript, Python, bash, PHP, Perl
Scientific : Octave/Matlab, Numpy, Scipy, R
Typography : LaTeX
Frameworks : Django, Qt, Express, Next.js, Nest.js, React, Apollo GraphQL
VCS : git, Mercurial, svn
Amazon Web Services : EC2, RDS, CloudFormation, IAM, ECS, Lambda, Elasticache
Orchestration : Docker, Ansible, Github Actions, Jenkins
Assembly : 6502
Religion : Emacs

Languages

English : Native
Spanish : Native
French : Fluent
Russian : Basic