Erik Pellizzon

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Work Experience

Freelancer Padua, Italy

SOFTWARE ENGINEER (REMOTE)

Nov 2023 - Present

- Working as an independent software engineer on the **backend** part of SaaS applications.
- Reversed APIs from various external websites and implemented custom clients in **Go**, to build an **aggregator** of external financial **forex data**
- Improved the code readability of **Go microservices** that exposed public REST APIs, through a refactoring of the old codebase that increased request handling **performance** by 20% on average.
- Integrated 20+ external payment systems and SMS API services within the current **Go** codebase of various customers, to allow users to pay and receive notifications.

GardaWorld Security - Crisis24

Konstanz, Germany

SOFTWARE ENGINEER (REMOTE)

Sep 2022 - Nov 2023

- Worked on a SaaS platform in the **Travel Risk Management** sector, which enables employees to stay safe while traveling, using sensitive data such as their location to send personalized security alerts. Crisis24 services are used by 50% of Fortune 500 companies.
- Improved the **Ruby on Rails** application backend (**+ Go microservices**) by fixing bugs and adding new features, modifying the **Ember.js** frontend when necessary.
- Reduced by 15% the average response time of internal **Ruby** microservices & exposed **GraphQL APIs** used by third-party software, by optimizing the **Redis** caching layer for the production environment on **Google Cloud**.
- Replaced a dataset that hadn't been updated in 10 years with a **Python** project created from scratch that dynamically builds an updated country border dataset using OpenStreetMap data and the Shapely library, saving the result in a **PostgreSQL** (with PostGIS) database.

Open Source Developer

GITHUB - VOLUNTEER May 2020 - Present

- Fixed bugs in public projects written using the **Go** programming language.
- Became **maintainer** of goproxy, a very **popular** project written in Go to setup a custom proxy server, with more than **6k stars** and thousands of users.
- **Contributed** to the development of the **Go language itself** by improving the performance of the standard library of the Go programming language, starting with Go version 1.20. You can read more about it in the Projects section.

Skills_

Languages Go, Python, C, Java

Database SQL, PostgreSQL, Redis, Apache Cassandra, MongoDB

Backend Distributed Systems, Microservices, Git, Docker, Google Cloud Platform, AWS

Projects

Go Programming Language

Open Source Contributor

- Made 6 proposals for code changes and 3 of them were accepted by the project maintainers and are now part of the Go compiler code.
- One of these changes is an optimization that increased encoder initialization performance for Base32 and Base64 by 40% by changing memory initialization implementation.

PiSquared

- Created a Telegram bot using **Go** that asks the user a question and then uses Natural Language Processing multilingual **text similarity** to calculate the **percentage of correctness**, based on a predefined answer.
- The project was praised by the author of the machine learning library used, for the creativity of the implementation.

Public Speaker

- Participated as a **volunteer speaker** in IT & technology conferences.
- Gave an in-depth presentation on coroutines in Go at the Devfest 2024 conference, organized by Google Developer Group Venice.

Education

Technical Institute Francesco Severi

Padova, Italy

A.S. COMPUTER SCIENCE

- · Software Engineering & Programming (Java, C), Concurrent Programming (Java), Algorithms & Data Structures (Java)
- Web Development Backend (PHP, MySQL) & Frontend (HTML, CSS, Javascript)
- Operating Systems, Computer Networks, Distributed Systems (Designing Data-Intensive Applications)

Certifications

2022 Apache Cassandra 3 Associate Developer (DataStax)

2022 MongoDB 5.0 Associate Developer
2021 Google Cloud Developer Specialization