Oleg Antonyan

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Software engineer

Broad experience from hardware and embedded programming to web, with depth in backend. Started with freelance, tried own busienesses including a startup where I built everything from hardware to frontend. Last 8 years focussed backend and data engineering. I can take vaguely described task and deliver the product. Fluent English. Available in US timezones.

WORK EXPERIENCE

AYTM • https://aytm.com • Full-time • 09/2016 - Present

Market research automation. Remote and async

Lead backend developer

- Introduced Rubocop in ~500k LOC Ruby on Rails project to improve code quality
- Created Data Warehouse for internal BI (Google BigQuery, PubSub, Cloud Functions)
- Implemented several big features with a lot of refactoring and data migrations, touchnig ~30% of all codebase, deployed with 0 downtime and 0 critical bugs.
- Carried RoR upgrade from 5.2 to 7.1 of ~1M LOC project

Slon-DS • Part-time • 12/2014 - 01/2020

Digital signage. Audio and video player for public places + cloud for controlling them. Startup, didn't survive COVID. All code remains here https://github.com/olegantonyan?tab=repositories&q=rmpd

Developer, co-founder

- Built everything. RoR app, audio player on ESP32, video player on RPi+Python, Android-based player
- Together with co-founder led the bootstrapped company to sustainable income

10levels • Full-time • 01/2015 - 09/2016

Mobile app and backend for weight loss

Lead developer

- Launched mobile app (Ionic framework) and backend for it (Ruby on Rails)
- Carried product development until hiring a dedicated product owner

System Technologies • https://sys4tec.com/en/ • 10/2013 - 12/2014

FMCG distribution automation

Software developer

- Created a CI tool for building C++/Qt app for multiple platforms, code here https://github.com/olegantonyan/fbbs2
- Made C++/Qt mobile app run natively on Adnroid x86 (in addition to ARM)
- Implemented error reporting service for mobile app using Google Breakpad

Freelance • 01/2011 - 11/2013

Embedded developer

- Ported LwIP on LPC1768 (https://bitbucket.org/antlabs_dev/lpc178x_freertos_lwip_skeleton/src) as a part of client's project - alarm system
- Created server-side software in C++/boost for communicating with alarm devices
- Reverse-engineered couple of protocols: one UDP-based, another propriitary similar to I2C
- Built a MESH network on CC430-based RF MCUs

PROJECTS

OmniPackage

https://github.com/omnipackage • 02/2023 - Present

Currently working on open source project which helps creating and distributing RPM and DEB packages - https://omnipackage.org/

mpz - music player for big local collections

https://mpz-player.org/ • 03/2019 - Present

OpenSource C++/Qt based desktop application. Inspired by "Album list" in Foobar2000, but it's not an attempt to clone

SKILLS

Backend: Docker, Gitlab, Google cloud, Linux, MySQL, PostgreSQL, Ruby on Rails

Languages: C, C++, Crystal, Go, JavaScript, Python, Ruby, Rust

Natives apps: Android, Embedded FreeRTOS, Embedded Linux, Qt

Data engineering: BigQuery, ClickHouse, ETL