

Artur Sinila

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B.Sc undergraduate in Programmable Mobile Systems Belarusian State University of Informatics and Radioelectronics

Rust, C and C++ programmer. GNU/Linux enthusiast. Passionate about technology and learning new skills. Contribute to free & open source software projects. Like solving challenging problems and optimizing performance.

Work experience

September 2021 November 2021	Rust software developer @ Polytech Software <ul style="list-style-type: none">Participated in Agile development of data backup software in Rust with cloud storage (AWS).Implemented retry logic for backup transactions.Fixed various bugs, wrote tests, did chores (updated dependencies, fixed lint warnings, etc.)Daily communicated in English with coworkers & American customer.
April 2019 April 2020	Software developer @ Itransition, Belarus <ul style="list-style-type: none">Implemented basic Robotic Process Automation (RPA) for JD Edwards ERP system with OpenCV & RustMaintained Oracle database used as a backend for JD Edwards.Set up RDP session over OpenConnect VPN on Ubuntu and documented the whole process for coworkers.Communicated in English with Japanese customer.

Skills

Operating Systems	GNU/Linux (my daily driver for 4 years), Windows
Programming	Primary: C++ and C (3 years), Rust (2 years). Secondary: Java, Kotlin
Tools	Git, NeoVim, Shell, Make, CMake, SSH, GDB, LaTeX
Databases	MariaDB, MySQL, Firebase, RocksDB, MongoDB
Cloud & Virtualization	Docker, Digital Ocean, AWS
Embedded systems	AVR, KiCad, basic soldering
Mobile development	Android
Languages	English — Intermediate (B1), Ukrainian — Beginner (A1), Belarusian, Russian — native

Personal Projects

- astro-cpp** (C++): Astrodynamics library in C++. Includes elliptic Kepler's equation & Lambert's problem solvers.
- simple-cpp-programs** (C++): simple programs written to practice C++ (unique digits counter, binary-search number guessing game, multiplication table quiz, quadratic equation solver)
- led-wave-potentiometer** (C, C++, FreeRTOS): 10 blinking LEDs, blinking speed is controlled by the potentiometer and is displayed on the 7-segment display. Employs FreeRTOS for multitasking. Based on ATmega88PA AVR microcontroller.
- railway-reservation-rs** (Rust, actix-web, MySQL (MariaDB)): Railway tickets reservation website (university course project).
- AstroGraphicRust [WIP]** (Rust, kiss3d): a project for visualization of interplanetary trajectories with gravity assists
- paint-droid** (Android, Kotlin): Paint app supporting choosing pen color & width, undo/redo, drawing of shapes and text labels.
- quiz-droid** (Android, Kotlin): Quiz Android app, uses Firebase for fetching questions & answers.
- table-of-users** (Java, Spring Boot, Hibernate): Basic CRUD app. OAuth2 via Facebook, Google and GitHub.
- resume** (LaTeX): The template and source files of *this resume*.

Contributions

- mold** (a modern linker): improved docs, optimized CI, helped to fix some tests.
- wlsunset**: added support for running on specific displays.
- Sayonara** (music player): fixed compilation with musl libc
- LanguageClient-neovim** (LSP plugin for NeoVIM): added support for rust-analyzer's type & parameter hints.
- lsp-plugins** (audio plugins for Linux): fixed compilation with musl, improved debugging experience.
- avr-rust/avr-mcu, avr-rust/avr-d** (AVR device definitions): improved compile times, made code more idiomatic
- Void Linux** (GNU/Linux distribution): added new packages (avr-gdb, simutron, symlinks, avra), updated & fixed packages (avrdude, chromium, s3cmd, imv, pulseeffects, rust-analyzer)

Education

September 2017 June 2021	Belarusian State University of Informatics and Radioelectronics Faculty of Computer-Aided Design B.Sc undergraduate in Programmable Mobile Systems
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