DENYS SMIRNOV

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OBJECTIVE

Software Engineer with 3+ years of commercial experience. Has strong olympiad mathematical and competitive programming background. Focused on reducing routine and creating best products with available resources.

EDUCATION

B.S. in Mathematics, V. N. Karazin Kharkiv National University (top 1 tech university in Ukraine) 2015 – 2021

WORK EXPERIENCE

Playwing Ltd Apr 2020 – Now
C++ Game Developer *Kharkiv, Ukraine*

- Worked with Unreal Engine 4 on AAA game.
- Implemented stand-alone deep-linking subsystem independed from concrete UI-components code.
- Created responsive interface on top of Unreal Engine's widget system.

Cruxlab Inc Jun 2017 – Mar 2020
iOS Software Engineer *Kharkiv, Ukraine*

- Worked with various technologies: CoreData, ARKit, SceneKit, Firebase, Google Maps API, etc
- Mastered a lot of techniques: reactive functional programming, dependency injection, interactive transitions.
- Mastered a lot of software architectural patterns: MVC, MVVM, VIPER, RIBs.

SIDE PROJECTS (OPEN SOURCE)

Yet another poll bot.[go] Telegram bot for polls with choosen options restrictions based on user-defined boolean grammar expression. Uses syntax like !1&!2 ⇒ 3|4 to check if selected options are a valid variant.

cp-tool.[rust] Competitive programming tool to use with different judge systems as ejudge, codeforces, yandex-contest, and so on. Inspired by cf-tool, but keep reusablity for different judge systems in mind.

Algorithms and Data Structures.[cpp] Implemented a lot of algorithms widely used in competitive programming in C++. Focused on re-usability and as much usages for as generous situations as possible with performance in mind.

ARTICLES

Competitive programming oriented articles: general tips & tricks for cpp source contains various tips can reduce amount of written code: from simple typealiases to using generic lambda syntax for comparators defining; reading describes how to define and read variables with single macro; for macro describing ways to reduce code spent on simple `for` — either a macro, or something like ranges library comes in c++20.

ACHIEVEMENTS

- The Summer School Programming - Uzhgorod — 3rd place (out of 70 teams-participants) Aug 2020
- ICPC 2016, 2017, 2019 — Semi-final participation Oct 2016, 2017, 2019
- KPI-Open 2019 — 3rd place (out of over 120 teams-participants) Jul 2019
- Iran's scientific olympiad — Bronze Jul 2017
- IMO 2015 — Gold Medal (even with 1pt for P1) Jul 2015
- IMO 2014 — Silver Medal (1pt to Gold Medal) Jul 2014