

# DENYS SMIRNOV

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## OBJECTIVE

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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

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

## WORK EXPERIENCE

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### [Playwing Ltd](#)

*C++ Game Developer*

Apr 2020 – Now

*Kharkiv, Ukraine*

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

### [Cruxlab Inc](#)

*iOS Software Engineer*

Jun 2017 – Mar 2020

*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)

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[Yet another poll bot.\[go\]](#) Telegram bot for polls with chosen 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 reusability 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

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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

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- [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

**SKILLS**

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Technical Skills	A, B, C, D
Soft Skills	A, B, C, D
XYZ	A, B, C, D