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**Andrei Tonkikh**

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## Education

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**Saint Petersburg  
Academic University**

BS in Computer Science

2015-Present (2 year)  
Graduating August 2019

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## Programming languages

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C++, Rust, Haskell, Java, Kotlin

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## Technologies

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Git, Unix/Linux, Libgdx game framework (Java)

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## Projects

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**Ghost Revenge** A small game for Android. My first experience in game development and my first release in Google play market.

**Blackout**  
[\(github\)](#) An open-source multiplayer 3D action game for Android. Not released yet.

**Hwformat**  
[\(github\)](#) Pre-processor for latex, which makes writing small mathematical texts in Russian language easier. Based on regular expressions.

**xo\_os**  
[\(github\)](#) An educational project at university. Small x86-64 OS-kernel written in Rust.

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## Open source experience

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I've had several pull requests to **Rust**'s standard collections library:

**BinaryHeap**  
[\(pull request\)](#) `append` method (merges two binary heaps in optimal time). My first experience, which wasn't complicated.

**BTreeMap** and **BTreeSet**  
[\(pull request\)](#) `split_off` method (splits the tree into two at the given key). It was much more challenging than the previous one.

All the methods I've implemented have been successfully stabilized.

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## Other experience

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**Programming contests** In high school I participated in many programming contests and was awarded in many important Russian programming olympiads like "All-Russian Olympiad of School Students in Informatics" and "Open Programming Olympiad". But now I prefer to spend my time on developing my engineering skills.

**Teaching** I like teaching and I was a teacher in "Summer Informatics School" for a month. This is a summer school for high school students who want to learn more about programming and algorithms.

**Altai CTF** My team was awarded in "Altai CTF" – an information security competition for university students (actually, we still were in high school unlike most of our competitors).