

Andrei Tonkikh

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Education

Saint Petersburg Academic University	BS in Computer Science Cloud Computing	2015-Present (3rd year) Graduating July 2019
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Programming Languages

Currently using: Kotlin, C++, Go
Well familiar with: Java, Rust, Bash, Haskell
Limited experience: Scala, Python

Internship Experience

Google SRE intern I was part of cloudnet shard of traffic team SRE in London for three months in the summer of 2017. I was working on improving the monitoring system for Google Cloud Engine.

Open Source Experience

Rust standard library I made several pull requests to Rust's standard collections library. ([split.off for BTreeSet and BTreeMap](#)), ([BinaryHeap::append](#))
All the methods I implemented are now in the stable release.

vSphere plugin for Hashicorp Packer Currently working on support of creating new VMs from Packer in VMware vSphere.

Projects

Blackout ([github](#)) ([demo video](#)) An open-source multiplayer 3D action game for Android. Written in Java using libGDX framework. In this project, I first encountered problems such as synchronization and complex real-time client-server interaction.

xo.os ([github](#)) Educational project. Small x86-64 OS kernel written in Rust. Supports memory allocation and threads.

Other Experience

Linux I've been using linux as the main operating system for more than 4 years. Took a course on linux administration. Currently taking a course on programming in linux kernel.

Programming contests In high school I participated in many programming contests and was awarded in many major Russian programming olympiads like "All-Russian Olympiad of School Students in Informatics" and "Open Programming Olympiad". Although now I prefer to spend time on developing my engineering skills, I appreciate the experience of programming contests since it gave me good skills in algorithms.

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.