

Andrei Tonkikh

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Education

Saint Petersburg
Academic University

BS in Computer Science
with focus on
Cloud Computing

2015-Present (3rd year)
Graduating July 2019

Internships

- **Google SRE Intern** *Summer 2017*
 - Was part of Cloudnet Shard of Traffic Team SRE in London.
 - Improved the black box monitoring system for Google Cloud Engine.

Open Source Experience

- **vSphere plugin for Packer** *Fall 2017 – Now*
 - Currently working on adding support of creating new VMs to VMware vSphere plugin for Hashicorp Packer in collaboration with a JetBrains engineer.
 - github.com/jetbrains-infra/packer-builder-vsphere
- **Rust Standard Collections Library** *Spring 2016*
 - I made several pull requests to Rust's standard collections library. All the implemented methods are now in the stable release.
 - `split_off` method for `BTreeSet` and `BTreeMap`: github.com/rust-lang/rust/pull/33947
 - `append` method for `BinaryHeap`: github.com/rust-lang/rust/pull/32987

Projects

- **My Little Map Reduce** *Winter 2017 – 18*
 - Toy implementation of mapreduce framework written in Kotlin. Kind of distributed.
 - github.com/xosmig/MyLittleMapReduce
- **xo_os** *Fall 2016*
 - Small multi-threaded x86-64 OS kernel written in Rust.
 - github.com/xosmig/xo_os
- **Blackout** *Fall 2016*
 - A multiplayer 3D action game for Android. Written in Java using libGDX framework.
 - github.com/niksaz/blackout

Programming Languages

Used Professionally: C++, C, Go, Kotlin

Have Experience With: Rust, Java, Haskell

Basic Knowledge: R, Scala, Python

Most Important University Courses

2015 – 16 Algorithms and Data Structures, C++, Linux Administration

2016 – 17 Operating Systems, Functional Programming, Java, Logic and Theory of Computation

2017 – 18 Linux Kernel, Databases, Statistics, Software Engineering, JVM languages

Other Experience

- **Linux Administration:** I've been using Linux as main operating system for more than 4 years and took a university course on Linux Administration.
- **Competitive Programming:** Was awarded in "All-Russian Olympiad of School Students in Informatics" and many others major Russian programming olympiads for high school students.
- **Teaching:** Taught high school students basic algorithms in "Summer Informatics School".