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 for 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.

- **Competetive 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".