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

- **Packer Plugin for vSphere** *Fall 2017*
  - Developed a Packer builder which automates creating VMs and OS installation in vSphere environment. The builder is widely used within JetBrains infrastructure and has its own user base.
  - *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.
  - *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

Strongest:	C++, C, Go, Kotlin, Java
Familiar With:	Rust, Haskell
Limited Experience:	R, Scala, Python, OCaml

Most Important University Courses

Spring 2018	Parallel Programming, Containerization, Computer Networks, Compillers
Fall 2017	Linux Kernel, Databases, Statistics, Software Engineering
2016 – 17	Operating Systems, Functional Programming, Java
2015 – 16	Algorithms and Data Structures, C++, Linux Administration

Other Experience

- **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".