

Apoorv Kothari

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Skills: Scala, Java, Android, Rust, AWS, Kubernetes, Docker, Distributed systems, MongoDB, Kafka, Fastly VCL, API design, High Availability

Open source:

Rust: <https://github.com/rust-lang/rust/pulls?utf8=%E2%9C%93&q=is%3Apr+author%3Atoidiu+>

Employment:

Software Engineer - iHeart Radio

Feb 2017 - Present

As part of the infrastructure/backend team, I was responsible for maintaining, testing and optimizing our Scala code base based on concrete app-level metrics that we collected. I also led the adoption of Kubernetes(k8s) as our new micro-service platform, as well as migrating off of other legacy infra.

- Led the adoption of k8s on AWS, using the kops project. Worked with a team to create a process for deploying our services. Also worked with the Ops team to standardize the deployment across other teams in the company.
- Helped migrate our Monolithic app to a more scalable micro-service architecture on top of k8s.
- Performed JVM analysis, resulting in sane memory limits and improved GC times.
- Added mongo embed testing to increase code confidence during mongo upgrades and code changes.

Founder at Wilfred

March 2016 - Feb 2017 (1 year)

Wilfred is a Slack bot that customized/automated welcome messages for team members and collected anonymous feedback from employees.

- Deployed a non-blocking, asynchronous Scala/Play Framework backend, which answered queries in under 3 seconds.
- Reduced the deployment complexity from (several minutes, >70 MB jar) to (under 10 seconds, < 2MB jar).
- Deployed using Docker on both AWS and DigitalOcean cloud platforms.

Android Consultant

Jan 2016 - June 2016 (5 months)

Android consulting projects. Please see the projects page for a list: toidiu.com/projects

Android Engineer at Touch Lab

Sept 2014 - Jan 2016 (1 year 5 months)

Architected, developed (backend/front-end), tests, and released apps while working closely with the client. Technical experience includes custom UI, watch-faces, mapping, video, offline, multi-threading. Worked on Forest Watcher, 1 Second Everyday, Minibar, Swig, LetsDoThis.

- Forest Watcher: An effort in collaboration with JGI to better map deforestation in Africa. Android implementation for the app featured offline mapping, offline data storage and data syncing. Also implemented a Java server (deployed on Google Cloud) that was responsible for sourcing/interpreting UMD and FORMA alert data and also capturing alert data from the app. More on the project which aims to release this year [<https://m.youtube.com/watch?v=kXJ7BiDmNss>]. Supporting talk [<https://speakerdeck.com/toidiu/offline-maps>].

Engineer at Rubenstein Technology Group

Oct 2013 - Aug 2014 (11 months)

Front End and Back End development of responsive sites with cross-platform support. Worked closely with the Design lead to create state-of-the-art sites, with an emphasis on content driven design.

- HDS - Implemented the custom website interaction. Worked on the design and compatibility of the site across all platforms. Site [<http://www.gsd.harvard.edu>].
 - Perkins Coie - One of two involved in coding the rebranded site. The site called for 10+ unique templates and support across all major browsers going back to IE 8. Site [<https://www.perkinscoie.com>].
- line

Parker Aerospace

June 2012 - march 2013 (9 months)

Designed and tested code on custom embedded ARM hardware. Followed strict coding guidelines to ensure testing and safety in accordance with FAA. Tasks included writing/debugging C code and regular hardware debugging in the lab.

Projects: toidiu.com/projects

Education:

- The Cooper Union for the Advancement of Science and Art EE, Electrical Engineering, 2009 - 2012
- Functional Programming Principles in Scala (Coursera)
- Functional Program Design in Scala (Coursera)

Awards/Certificates:

- Full-tuition Academic Scholarship, 2008 - 2012