

Apoorv Kothari
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Skills: Scala, Java, Rust, Android, AWS, Kubernetes, Docker, Distributed systems, MongoDB, Kafka, Fastly, API design, Databases

Projects: toidiu.com/projects

Open source: toidiu.com/projects#open-source-contributions
- rust-lang/rust - rusty-crates/postgres-mapper

Employment:

Software Engineer - iHeart Radio

Feb 2017 - Mar 2019

- 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.
- Worked closely with Data Science/Design/iOS to help launch music recommendation service.

Founder at Wilfred

Mar 2016 - Feb 2017

- 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 Engineer at Touch Lab

Sept 2014 - Jan 2016

- 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

- 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.
- Build a new rebranded website for a large law firm. The site called for 15+ unique templates which had to be reflexive and supported across all major browsers going back to IE 8.

Parker Aerospace

June 2012 - Mar 2013

- Designed and tested code on custom embedded ARM hardware.
- Tasks included writing/debugging C code and regular hardware debugging in the lab.

Consulting:

- Android apps:
 - <https://play.google.com/store/apps/details?id=toidiu.com.fieldnotebook>
 - <https://play.google.com/store/apps/details?id=www.oystour.com.oystour>
- Technical consultant:
 - Work closely with ShatterProof leadership. Translate business requirement into tech-spec documents, interview and evaluate contractors and reduce technical risks while keeping business goals in mind.

Education:

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

2009 - 2012

Awards/Certificates:

Full-tuition Academic Scholarship, 2008 – 2012