Apoorv Kothari

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Expertise: Scala, Java, Android Development, AWS, Kubernetes, Docker, Distributed systems

Projects: toidiu.com/projects

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.

- Helped migrate our Monolithic app to a more scalable micro-service architecture.
- Led the adoption of k8s on AWS, using the kops project. Worked with my coworkers to create a process for deploying our services. Also worked with the Ops team to standardize the deployment across other teams in the company.

CTO - 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. Supported 17,000+ users and 60+ teams at its peak.

- Deployed a highly-available and scalable solution using Scala/Play Framework as the backend.
- 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. Pease see the projects page for a list.

SubwayTunes Jan 2016 - June 2016 (5 months)

SubwayTunes was a personal project which sought to connect street musicians with their fans (people who love the music but are too busy to stop and find the artist's names). Created an Android client and BE Scala server track performances based on time/artist/distance.

- Created an Android client with an offline-first approach to enable usability within the subway.
- Used MongoDb to prototype rapid schema-less iterations while also benefitting from its geo-spatial query support.

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. Built entire sites from scratch, while providing support for existing sites.
• 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.
• Implemented the refuel/defuel software for safety of flight testing. Configured and utilized communication protocols such as SPI and UART between multiple ICs in the system.
• Performed board level troubleshooting at extreme temperatures during the hardware/software integration process. Worked closely with the hardware lead to solve erratic behavior at extreme temperatures.

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