

Prashanth Iyer

Contact Information

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Bio

Currently, Sr. Software Engineer at Roku Inc. 10+ years of experience working on the frontend, backend, infrastructure, and scaling. A passionate programmer who loves design pattern, functional programming and enjoys Himalayan hikes.

Skills

- **Languages:** NodeJS, Python.
- **Data Pipeline:** Kafka, Spark, Airflow.
- **Database:** MySQL, CouchDB, PostgreSQL.
- **Frameworks:** Django, Express.
- **DevOps:** Docker, Kubernetes, Gulp, Browserify.
- **Web:** HTML, CSS, WebSockets, Web Components, React.

Employment

Roku Inc., Sr. Software Engineer (October 2017 - current)

Part of voice service/AI team; my role is to build the voice service infrastructure and data pipeline.

- Implemented VAD for far-field devices(WebRTC based).
- Built an application level metrics with auto failover for external services.
- Designed a device state retrieval system with Go, Kafka, Redis, and Apache Spark.
- Wrote an ETL data pipeline for machine learning with Spark and Airflow.
- Built an offline data analysis to detect NLP error rates.

Search, Yahoo Inc., Software Dev Eng, Sr. (December 2015 - September 2017)

Built the backend to syndicate search data to partner network.

- Scaled the API to 4000 QPS.
- Built a fraud detection system that prevented keywords abuse and improved revenue.
- Redesigned the system to use docker container, which can scale based on the traffic.

Mobius Justice, co-founder (June 2016 - April 2017)

Mobius is an Outcomes Driven Platform that provides the department of probation with insights into the performance of their client population (google analytics for juvenile probation system).

- The platform was built on Gitlab, GCP, Kubernetes, Docker, NodeJS, PostgreSQL, and React.
- Built unit testing framework for database queries, a system that can generate sample dataset, create a sandbox environment, and test SQL.
- Wrote a framework to write SQL with [Function composition](#).

YSB, Yahoo Inc., Software Dev Eng, Sr. (November 2013 - November 2015)

- Rewrote the legacy stack with NodeJS, made the application device friendly.
- Built A/B testing infrastructure, analytics platform, and continuous deployment.
- Reduced development cycle from weeks to hours.
- Rebuilt the payments system with Zuora.

Flickr, Yahoo Inc., Lead Engineer, San Francisco, CA. (April 2013 - October 2013)

Web Hosting, Yahoo Inc., Lead Engineer, India (July 2010 - March 2013)

- Re-architected the old PHP stack to NodeJS.
- Build Template testing framework which reduced the testing cost by one-third.
- Introduced Frontend best practices, TDD and BDD.

Sportxiom Ventures, Web Architect, India 2009 - 2010

I was responsible for building a real-time sports application in Python, Django, and JavaScript.

Info Edge, Senior Software Engineer, India 2008 - 2009

Cleartrip, Graduate Engineer, India 2007 - 2008

Cleartrip is an online travel company providing online booking services for flights and train tickets. I was part of the air search team; I learned Lisp, Web Development, and Functional Programming.

Education **B.Tech Information Technology**, Anna University, India. (June 2003 - Nov 2007)