

# Aniraj Kesavan

Hayward, California  
☎ (801) 425 7410  
✉ [anirajkesavan@gmail.com](mailto:anirajkesavan@gmail.com)  
📄 [anirajk.github.io](https://github.com/anirajk)

*Nine years of experience scaling Distributed Systems  
Databases, Observability  
Infrastructure/Platform development  
Golang, Python, C++, Unix*

## Experience

- 2019 – **Senior Software Engineer, *LinkedIn***, Sunnyvale, U.S.A.
- Present
- Co-Leads development of the metadata layer for LinkedIn's time series storage platform.
  - Refactored Index serving architecture to use **vitess**, Fast materialized views using **roaring bitmaps**.
  - Expertise in storing tens of billions of strings for fast indexing of operational metrics.
  - Owns multiple core services within Monitoring Infrastructure at LinkedIn.
- 2017 – 2019 **Site Reliability Engineer, *LinkedIn***, Sunnyvale, U.S.A.
- Developing health and actions platform for LinkedIn's Monitoring Infrastructure.
  - Rewrote a monitoring server that handles health checks of over two hundred thousand machines spanning multiple data centers.
  - Scaled the relational backend to do hundreds of thousands of write queries per second using **golang** and **mysql**.
- 2015–2017 **Graduate Research Assistant, *Scalable Software Systems Lab***, Utah, U.S.A.
- Early member of **Utah SCS Lab** under **Prof. Ryan Stutsman**, evaluating how modern networking hardware influence performance of large transfers of In-Memory Data.
  - Worked under **Flux Group** under **Prof. Robert Ricci** developing profiles for **Cloudlab**.
- Summer 2016 **Site Reliability Engineering Intern, *LinkedIn***, Mountain View, U.S.A.
- Developed an out of band monitoring solution and some state driven automation for auto remediation in the Monitoring Infrastructure team.
- 2014–2015 **R&D Engineer - Pipeline, *DreamWorks Animation***, Bengaluru, India.
- Worked on re-engineering the production pipeline for the Animation Studio.
  - Credited as R&D Engineer for three Hollywood productions - **IMDb profile**.
- 2012–2014 **Associate Software Engineer, *Zynga***, Bengaluru, India.
- Part of the team that developed and maintained **zBase**, the flagship NoSQL database in use at Zynga at that time.

## Education

- 2015–2017 **Master of Science, *University of Utah***, U.S.A, Computer Science.
- 2008–2012 **Bachelor of Technology, *Cochin Univ. Science and Technology***, India, Computer Science and Engineering.

---

## Positions of Responsibility

- 2015–2016 **Membership Chair, ACM Student Chapter**, UNIVERSITY OF UTAH.  
2015 **Chairman & Founder, Quiz Club**, DREAMWORKS ANIMATION INDIA.

---

## Publications

- Master's Thesis **Making Large Transfers Fast For In-Memory Databases In Modern Networks**,  
Advised by Prof. Ryan Stutsman.  
Supervisory Committee: Prof. Ryan Stutsman, Prof. Robert Ricci, Prof. Feifei Li
- Conference **Rocksteady: Fast Migration for Low-latency In-memory Storage** .  
Chinmay Kulkarni, **Aniraj Kesavan**, Tian Zhang, Robert Ricci, Ryan Stutsman  
The 26th ACM Symposium on Operating Systems Principles, October 28-31, 2017, Shanghai, China
- Workshop **To Copy or Not to Copy: Making In-Memory Databases Fast on Modern NICs** .  
**Aniraj Kesavan**, Ryan Stutsman, Robert Ricci  
Proceedings of the Fourth International Workshop on In-Memory Data Management and Analytics (IMDM) 2016 at VLDB 2016, New Delhi, India.
- Invited Article **Beyond Simple Request Processing with RAMCloud** .  
Chinmay Kulkarni, **Aniraj Kesavan**, Robert Ricci, Ryan Stutsman  
Invited Article in Special Issue on Distributed Data Management with RDMA  
IEEE Computer Society Bulletin of the Technical Committee on Data Engineering, March 2017, Vol 40 No.1.