Robert Escriva

Ph.D. Candidate
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Received my Ph.D. from the Department of Computer Science at Cornell university, broadly studying distributed systems and large-scale infrastructure. Active community member in top academic publication venues, both as an author and as a reviewer. Patented multiple inventions while a researcher at Cornell through the technology commercialization arm. Active maintainer of multiple open source projects collectively holding more than 2,000 starts on GitHub.

Education

- Cornell University Ph.D. Computer Science Anticipated: May, 2017
- Cornell University M.S. Computer Science May, 2016
- Rensselaer Polytechnic Institute B.S. Computer Science May, 2010

Publications

- Consus: Taming The Paxi.
  Robert Escriva and Robbert van Renesse.
  In *CoRR*, abs/1612.03457, 2016.
- The Design And Implementation Of The Warp Transactional Filesystem.
  Robert Escriva and Emin Gün Sirer.
  In Proceedings of the *Symposium on Networked System Design and Implementation*, Santa Clara, California, March 2016.
- Weaver: A High-Performance, Transactional Graph Database Based On Refinable Timestamps.
  Ayush Dubey, Greg D. Hill, Robert Escriva, and Emin Gün Sirer.
  In *Proceedings of the VLDB Endowment*, 9(11):852-863, 2016.
- Warp: Lightweight Multi-Key Transactions For Key-Value Stores.
  Robert Escriva, Bernard Wong, and Emin Gün Sirer.
  In *CoRR*, abs/1509.07815, 2015.
- Tiered Replication: A Cost-Effective Alternative To Full Cluster Geo-Replication.
  Asaf Cidon, Robert Escriva, Sachin Katti, Mendel Rosenblum, and Emin Gün Sirer.
  In Proceedings of the *USENIX Annual Technical Conference*, Santa Clara, California, July 2015.
- Kronos: The Design And Implementation Of An Event Ordering Service.
  Robert Escriva, Ayush Dubey, Bernard Wong, and Emin Gün Sirer.
  In Proceedings of the *European Conference on Computer Systems*, Amsterdam, The Netherlands, April 2014.
- HyperDex: A Distributed, Searchable Key-Value Store.
  Robert Escriva, Bernard Wong, and Emin Gün Sirer.
  In Proceedings of the *SIGCOMM Conference*, Helsinki, Finland, August 2012.
- An Introduction To HyperDex And The Brave New World Of High Performance, Scalable, Consistent, Fault-Tolerant Data Stores.
  Robert Escriva, Bernard Wong, and Emin Gün Sirer.
  In *;login:*, 3(37):39--49, 2012.
- Measuring Behavioral Trust In Social Networks.
  Sibel Adali, Robert Escriva, Mark K. Goldberg, Mykola Hayvanovych, Malik Magdon-Ismail,

Boleslaw K. Szymanski, William A. Wallace, and Gregory Todd Williams.
In Proceedings of the *IEEE International Conference on Intelligence and Security Informatics*,
Vancouver, Canada, May 2010.

Professional Service

- Reviewed papers for NSDI 2017
- Reviewed papers for OSDI 2014
- Reviewed papers for NSDI 2013
- Reviewed papers for OSDI 2012
- Reviewed papers for SIGCOMM 2012
- Reviewed papers for EuroSys 2012
- Reviewed papers for NSDI 2012
- Assistant to expert witness to the defense, Arista Records LLC v. Lime Group LLC, 2011

Patents

- Managing dependencies between operations in a distributed system
  Robert Escriva, Emin Gun Sirer, Bernard Wong
  US20150172412 A1 application by Cornell University
- System and methods for mapping and searching objects in multidimensional space
  Emin Gun Sirer, Nicole L. Caruso, Bernard Wong, Robert Escriva
  US9317536 B2 assigned to Cornell University

Selected Talks

- The Design and Implementation of the Warp Transactional Filesystem
  NSDI.
  Santa Clara, California, March 2016.
- Kronos: The Design and Implementation of an Event Ordering Service.
  EuroSys.
  Amsterdam, The Netherlands, April 2014.
- HyperDex: A Distributed, Searchable Key-Value Store.
  ACM SIGCOMM Conference.
  Helsinki, Finland, August 2012.

Honors and Awards

- Facebook Graduate Fellowship Facebook 2014-2015
- VMWare Graduate Fellowship VMWare 2012-2013
- OSDI Student Travel Grant USENIX Oct, 2012
- SOSP Student Travel Grant ACM Oct, 2011
- Outstanding Teaching Assistant Cornell University Fall, 2011
- Yahoo! Ph.D. Teaching Award Cornell University Fall, 2010
- Paul McGloin Outstanding Senior Award Rensselaer Polytechnic Institute May, 2010
- Dr. Robert P. Ingalls Award Rensselaer Polytechnic Institute May, 2010
- Rensselaer Founders Award Rensselaer Polytechnic Institute October, 2009