

MATHIAS RICKEN

mgricken@gmail.com

(713) 568-6852

EXPERIENCE

Principal Member of Technical Staff, Oracle Software, Seattle, WA, Mar 2017 –
Developing a reliable, efficient, and easy to use SDK for Oracle’s bare-metal cloud.

Senior Software Engineer, Tableau Software, Seattle, WA, Dec 2015 – Mar 2017
Working at the intersection of Tableau’s two most important projects: Developing a
Linux server, and creating an improved, scalable server infrastructure and
administration interface.

Senior Software Development Engineer

Amazon.com, Seattle, WA, Jan 2011 – Dec 2015

- Extending and simplifying the Subscriptions platform, the backbone of programs like Prime, Kindle Unlimited, Audible, and Subscribe with Amazon by adding plug-in concepts and self-service web UIs.
- Converting the Kindle bookstore storefront to a server-side-rendered website correctly displayed on diverse hardware.
- Automatically detecting and rolling back deployments of faulty code.
- Responsive client-side web UI for self-service configuration of anomaly detection, including graphical display of past data and anomalies.
- Automatic modification of anomaly detection configuration based on user-supplied constraints.
- Anomaly detection service for numerical time-series data, consuming live metrics from thousands of distributed servers. Live migration from old service to scalable new service without downtime.
- Live migration from old service to scalable new service without downtime.

Instructor, Production Programming, Spring 2009, Rice University

Instructor, Principles of Object-Oriented Programming 2, Fall 2008, Rice University

PATENTS

Integration based anomaly detection service US PTO 9015536, 9015536.

Detecting resource usage anomalies in a cloud computing environment.

EDUCATION

Ph.D. in Computer Science May 2011, Rice University, Houston, TX

Thesis: “A Framework for Testing Concurrent Programs”

Research Area: Programming Languages. Advisor: Dr. Robert Cartwright

PUBLICATIONS and PRESENTATIONS (selected)

Agile and Efficient Domain-Specific Languages using Multi-stage Programming

Ricken, M., E. Westbrook, and W. Taha. *GPCI 2010*

Mint: Java Multi-stage Programming Using Weak Separability

Westbrook, E., M. Ricken, J. Inoue, Y. Yao, T. Abdelatif, and W. Taha. *PLDI 2010*

ConcJUnit: Unit Testing for Concurrent Programs

Ricken, M., and R. Cartwright. *PPPJ 2009*

Design Patterns for Parsing

Nguyen, D., M. Ricken, and S. Wong. *SIGCSE 2005*