

Marco Yuen

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Experience

Senior Software Engineer, VMTurbo, New York, NY

July 2015 – present

Currently working on designing and implementing the next generation of our product. Tasks include splitting the monolithic application into microservices, and leading a team in charge of evaluating and integrating an in-memory data grid into the next generation of the product.

Software Engineer, Dstillery, New York, NY

March 2014 – June 2015

Work on different business and mission critical products. Those products include the real-time bidding platform, Ad serving platform, Tracking/Scoring platform, backend of a client facing product, and a next generation data storage abstraction layer that will be used by all those platforms. All these systems handle around 40 billion events per day. I am responsible for designing, implementing new features, and maintaining existing products.

Software Engineer, Two Sigma Investments, New York, NY

November 2012 – March 2014

Responsible for designing, developing and maintaining software tools for all the engineers in the company. I work on a large platform that provides a unified interface for engineers to develop, test, deploy, and code review their codebases. Moreover, I design and implement various other tools that integrate different code browsing tools into our build, and version control system, and design and implement a web application that allows developers to have finer access control to their repositories. In addition, I implement a monitoring framework for collecting metrics. I am also responsible for maintaining our version control system (Mercurial) where all the codebases in the company are hosted.

Associate Profession Specialist, Planet-Lab, Princeton, NJ

November 2010 – November 2012

Develop and maintain software for the [VICCI](#) project and [PlanetLab](#) project. Deploying clusters to multiple sites, and occasionally, providing support when the cluster is down (e.g. configuring switches). I am working on the managing layer that deals with managing lifecycles of the VMs and physical nodes, as well as their networking configurations. Also, contributing ideas to the VICCI projects.

Contractor, Hewlett-Packard Labs, Palo Alto, CA

November 2009 – November 2012

Work on the GENICloud project, a joint project between HP Labs, Planet Works (Princeton University), and University of Victoria. GENICloud is also the work of my master's thesis. The project's goal is to federate private/public clouds with [GENI](#)¹, a global scale network testbed.

¹<http://www.geni.net>

Contractor, MDA Corporation, Richmond, BC

September 2009 – November 2009

Responsible for writing a communication layer using JNI between a library written in C and a system written in Java.

Software Developer, AlarmPoint Systems Inc., Victoria, BC

January 2007 – September 2007

Worked as a software developer. I was part of a team that developed an enterprise event notification system. The company has since renamed to xMatters.

Skills

Cloud Systems: Amazon EC2, Eucalyptus, OpenStack

Languages: Bash, Clojure, Haskell, Java, Python

Operating Systems: Linux, Mac OS X

Programming Paradigms: Object-Oriented Programming, Functional Programming, Aspect-Oriented Programming

Tools/Libraries: Docker, Git, Jira, Jenkins, Kafka, RabbitMQ, Spring, ØMQ

Data Storage: Aerospike, Cassandra, Infinispan, MySQL

Open Source

GitHub Profile – <http://github.com/marcoy/>

Various open-source projects can be viewed on my github profile.

Bitbucket Profile – <https://bitbucket.org/marcoy>

Various open-source projects can be viewed on my bitbucket profile.

Education

Graduate School

University of Victoria, Victoria, BC – Master of Science in Computer Science. January, 2008 - July, 2010

Master's Thesis: GENI in the Cloud - http://s3.amazonaws.com/marcoy_thesis/Thesis.pdf

Post Secondary School

University of Victoria, Victoria, BC – Bachelor of Science in Computer Science. Graduated with Distinction. December, 2006

Secondary School

R.C. Palmer Secondary School, Richmond, BC. Graduated in 2001.

Award

The winner of Undergraduate Student Research Awards in University of Victoria.

Publications

- [1] **Marco Yuen**. GENI in the cloud. Master's thesis, University of Victoria, 2010.
- [2] Laurent Burgy, Marc E. Fiuczynski, **Marco Yuen**, and Robert Grimm. On reconciling patches and aspects. In *ACP4IS '09: Proceedings of the 8th workshop on Aspects, components, and patterns for infrastructure software*, pages 1–6, New York, NY, USA, 2009. ACM.
- [3] A. Agarwal, M. Ahmed, A. Berman, B. L. Caron, A. Charbonneau, D. Deatrigh, R. Desmarais, A. Dimopoulos, I. Gable, L. S. Groer, R. Haria, R. Impey, L. Klektau, C. Lindsay, G. Mateescu, Q. Matthews, A. Norton, W. Podaima, D. Quesnel, R. Simmonds, R. J. Sobie, B. St. Arnaud, C. Usher, D. C. Vanderster, M. Vetterli, R. Walker, and **M. Yuen**. GridX1: A canadian computational grid. *Future Gener. Comput. Syst.*, 23(5):680–687, 2007.
- [4] Stuart Bray, **Marco Yuen**, Yvonne Coady, and Marc E. Fiuczynski. Managing variability in systems: Oh what a tangled OS we weave. 2004.
- [5] **Marco Yuen**, Marc E. Fiuczynski, Robert Grimm, Yvonne Coady, and David Walker. Making extensibility of system software practical with the C4 toolkit. In *In AOSD Workshop on Software Engineering Properties of Languages and Aspect Technologies*, 2006.