

charliemeyer

software artist, computer scientist, open source enthusiast

contact

charlie@charliemeyer.net
<https://charliemeyer.net>
Github
LinkedIn

630.886.7082

tongue

native english,
professional spanish
proficiency

objective

To obtain a full time position in the software engineering field at a dynamic high tech company.

industry experience

2014-Present **HomeAway**

Austin, Texas

Senior Software Engineer

At HomeAway, I am a senior software engineer and team lead for the internal tools and infrastructure team. I was previously on the core platform team which covers HomeAway's high-traffic REST API and enterprise messaging busses. I daily deal with technologies such as RabbitMQ, Elasticsearch, Hadoop, Kafka, and Docker among many others.

- Architected, developed, and rolled out a new internal application based on Ruby on Rails used by all engineers to accurately capture capitalizable time
- Architected and developed a distributed microservice-based JSON registry used by a variety of applications across the organization
- Led the migration to and architected new solutions on AWS for the productivity engineering organization
- Mentored the 3 Day Startup Program sponsored by HomeAway both in Austin, TX and London, UK
- Architected, developed, and open-sourced the HomeAway Ruby SDK for the HomeAway Developer API and Ruby library for communicating with Apache Storm clusters on behalf of HomeAway

2012–2014 **IBM**

Austin, Texas

Staff Software Engineer

Engineer on the Cluster Aware AIX team, the backbone of the clustering capabilities of the IBM enterprise grade UNIX operating system. I led the effort to maintain, refactor, and enhance the AIX cluster communications daemon.

- Led the AIX effort to certify Oracle Real Application Clusters database on PowerHA
- Enhanced AIX clustering to scale to 32 nodes and 1024 disks per node, including parallelization of core clustering libraries
- Enabled unicast AIX cluster heartbeating
- Enabled dynamic network configuration change support across clustered systems
- Co-author of a clustering algorithm patent

2010–2011 **IBM**

Austin, Texas

Power Systems Firmware Engineer Co-op

Architected and developed an automated functional test suite composed of approximately 130 test cases for IBM Power Systems.

2008-2009 **IBM** Rochester, Minnesota
Power Systems Performance Co-op
Worked as a member of a team to benchmark systems, analyze performance data, develop workloads, perform maintenance on IBM Power Systems, and develop tools to aid in performance analysis.

education

2010-2012 **Masters of Science** computer science University of Illinois, Urbana-Champaign
Specialization: Object oriented architecture and design

2005-2010 **Bachelor of Science** computer science University of Illinois, Urbana-Champaign
Specialization: Software Engineering, Information Assurance

publications

patents

Enhanced Mechanisms for Granting Access to Shared Resources
E. Cruz-aguilar, P. Ganesh, M. Kandasamy, C. Meyer, and S. Tovcimak
US Patent 20150089059, 03-26-2015
URL: <http://appft1.uspto.gov/netacgi/nph-Parser?Sect1=PT01&Sect2=HITOFF&d=PG01&p=1&u=/netahtml/PT0/srchnum.html&r=1&f=G&l=50&s1=20150089059.PG NR>.

thesis

CoMoTo: The Collaboration Modeling Toolkit
C Meyer
MS Thesis
University of Illinois at Urbana-Champaign, Aug. 2012
URL: <https://www.ideals.illinois.edu/handle/2142/34353>

international peer-reviewed conferences/proceedings

Programming Studio: Advances and Lessons Learned
C. Meyer and M. Woodley
ITICSE, 2012, Haifa, Israel
URL: <http://dl.acm.org/citation.cfm?id=2325384>

CoMoTo: The Collaboration Modeling Toolkit
C. Meyer, C. Heeren, J. Tedesco, and E. Shaffer
ITICSE, 2011, Darmstadt, Germany
URL: <http://dl.acm.org/citation.cfm?id=1999789>

technical reports

Mocking an Integrated Clinical Environment with JavaScript
C. Meyer
University of Illinois at Urbana-Champaign, Aug. 2009
URL: <https://www.ideals.illinois.edu/handle/2142/29945>

JavaScript: Bringing Object-Level Security to the Browser
C. Meyer and M. Rabb
University of Illinois at Urbana-Champaign, May 2009
URL: <https://www.ideals.illinois.edu/handle/2142/29944>