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 the lead software engineer on our 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.

Detailed achievements:

- 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 led a team to develop a distributed SOA-based JSON registry and dashboard framework
- 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
- Open-sourced a 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=PTO1&Sect2=HITOFF&d=PG01&p=1&u=/netahtml/PTO/srchnum.html&r=1&f=G&l=50&s1=20150089059.PGNR.`

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