

charliemeyer

software artist, computer scientist, open source enthusiast

contact

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Github
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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

2017-Present **Civitas Learning**

Austin, Texas

Staff Software Engineer

Currently I am a tech lead on the Civitas platform team. I am working on architecting and building out a next-generation streaming data pipeline in the higher education space to enable our consuming applications to be more real-time, scale efficiently, onboard new users quicker, and reduce cloud computing costs.

2014-2017 **HomeAway**

Austin, Texas

Senior Software Engineer

At HomeAway, I was 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 worked 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 <i>Power Systems Firmware Engineer Co-op</i> Architected and developed an automated functional test suite composed of approximately 130 test cases for IBM Power Systems.	Austin, Texas
2008-2009	IBM <i>Power Systems Performance Co-op</i> 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.	Rochester, Minnesota

education

2010-2012	Masters of Science computer science Specialization: Object oriented architecture and design	University of Illinois, Urbana-Champaign
2005-2010	Bachelor of Science computer science Specialization: Software Engineering, Information Assurance	University of Illinois, Urbana-Champaign

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.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>