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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

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

Responsible for Power7+ AIX bring-up including integrated system test as well as an integral member of the Cluster Aware AIX team, the backbone of the clustering capabilities of the IBM enterprise grade UNIX operating system, which is an underlying component of IBM PowerHA and VIOS SSP. As part of that team, I led the effort to maintain, refactor, and enhance the AIX cluster communications daemon.

Detailed achievements:

- 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
	<i>Power Systems Test Engineer Co-op</i>	
	Architected and developed an automated functional test suite composed of approximately 130 test cases for IBM Power Systems firmware using Rational tools, including Rational Functional Tester and Rational ClearQuest. Deployed existing and new code bases to Rational Quality Manager for usage by remote teams. Performed intensive Power Systems debugging, installs, and triage.	
2008-2009	IBM	Rochester, Minnesota
	<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.	
	<ul style="list-style-type: none"> • Created an automation framework to streamline TPC-C benchmarks • Developed the front-end and CL/C++ harness for a new implementation of TPC-E for IBM i • Architected and developed an API to access Collection Services, PEX, JobWatcher, and DiskWatcher data from IBM i in Java 	
2007-2008	Solidware Technologies	Champaign, Illinois
	<i>Software Engineer Intern</i>	
	Worked as a member of an agile team developing a J2EE web based application which performed static code analysis.	

education

2010-2012	Masters of Science computer science	University of Illinois, Urbana-Champaign
	Specialization: Software Engineering, Software Architecture, Design Patterns, Next Generation Computer Science Education	
	Thesis: CoMoTo: The Collaboration Modeling Toolkit	
2005-2010	Bachelor of Science computer science	University of Illinois, Urbana-Champaign
	Specialization: Software Engineering, Information Assurance	

publications