

Matt Houglum

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Education

Middle Tennessee State University

M.S. Computer Science – 4.0 GPA

2012 – 2014
Murfreesboro, TN

Middle Tennessee State University

B.S. Professional Computer Science
Cum Laude – 3.7 GPA

2008 – 2012
Murfreesboro, TN

Relevant Coursework

- Software Design and Development
- Advanced Operating Systems
- Implementation of Parallel Software

Experience

Lead Android Developer, MTSU

2011 - 2014

- Collaborated with a small team, participating in the full software development life cycle for apps like MTSU Mobile (10,000+ users), which allows students to easily access MTSU resources and information
- Created and maintained databases (server and client side) and content management systems used with our applications
- Implemented Android-based campus bus tracking system, viewable via website and the MTSU Mobile app, allowing students to easily locate the nearest buses in real time and saving MTSU thousands of dollars compared to other specialized GPS solutions
- Tools used include Java (and JDK tools), Eclipse (with Android SDK), Android NDK, SVN, Git, Microsoft SQL Server, MySQL, SQLite, PHP, NodeJS, and JavaScript

Jr. HPC Linux System Administrator, MTSU

2012 - 2014

- Monitored 50+ systems, including parallel computing clusters, web servers, student terminal servers, backup servers, and individual workstations
- Mainly Debian and RHEL; some experience with Windows Server utilities
- Helped manage and configure several areas: DNS; DHCP; FAI (Debian); virtual machines (VMware vSphere); user accounts (Custom web-based account management utilities, Windows Domain Controller, Linux system authentication against Active Directory via LDAP)

Internships

HCA Healthcare

Summer 2012

- Installed Microsoft FAST and created pipelines for document indexing
- Used ASP.NET and the FAST C# API to create a front-end interface to search through millions of documents and database entries

Thompson Machinery

Summer 2011

- Worked in a four-person team to develop a web-based safety survey tool from scratch using mainly PHP, MySQL, and JavaScript
- Allowed administrative staff to automate the nation-wide survey, as well as report generation, greatly reducing the yearly survey workload

Accomplishments

Competitions

- 2013 ACM local programming contest - 1st place
- 2013 Deloitte mobile app design challenge - 3rd place
- 2012 Deloitte mobile app design challenge - 2nd place
 - "Best-engineered application"
- 2011 ACM regional programming contest - 3rd place
- 2010 - 2012 ACM local programming contests - finished top 4
- Inducted into Upsilon Pi Epsilon (UPE)