

Arthur C. Huggard

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Overview

A dynamic, well-rounded, and highly skilled Master's student who has significant development and programming experience. Team oriented but also can work well independently with little supervision. Has excellent people and communication skills. Professional interests lie in enterprise level software design/development particularly for medical informatics applications.

Education

Estimated: May 2008 | Master of Science – Computer Science – GPA 3.38
UNIVERSITY OF MISSOURI – COLUMBIA | COLUMBIA, MISSOURI

Thesis Project: Eldercare Technology Logging & Alerting Framework/API: As part of a multi-year collaboration with the MU Sinclair School of Nursing, the Computational Intelligence Research Lab is working on developing technologies that can autonomously monitor the activity levels of senior citizens in their own homes. It is the goal of this project that that these technologies will enable seniors to remain independent longer by detecting potential medical issues earlier and alerting necessary parties to intervene before complications arise. My portion of this project surrounds the creation of a framework / API for collecting data from existing sensors and alerting appropriate parties when potential issues are detected. This framework will be extensible enough that new alerting algorithms, notification mechanisms, and sensors/devices can be easily added to the system.

December 2005 | Bachelor of Science – Computer Science – Cum Laude
UNIVERSITY OF MISSOURI – COLUMBIA | COLUMBIA, MISSOURI

May 2002 | High School Diploma
EUREKA HIGH SCHOOL | EUREKA, MISSOURI

Relevant Experience

January 2006 – May 2008 | Graduate Research Assistant
COMPUTATIONAL INTELLIGENCE RESEARCH LAB | UNIVERSITY OF MISSOURI – COLUMBIA

- Developing an extensible logging & alerting API for the Eldercare Technology Research Project
- Developing a mock implementation of the logger to test potential alert algorithms from previously collected data
- Investigated the performance /features / functionality of existing event logging systems

August 2003 – May 2008 | Systems Administrator
COMPUTATIONAL INTELLIGENCE RESEARCH LAB | UNIVERSITY OF MISSOURI – COLUMBIA

- Trained a replacement Systems Administrator
- Setup, configured, secured, maintained, and backed up multiple Linux servers, Windows workstations, and the lab's network
- Maintained and administered the lab's SharePoint site, websites, distribution lists, and other resources

Summers 2004 – 2007 | Software Engineering Intern

CERNER CORPORATION | KANSAS CITY, MISSOURI

- (2007) Helped lower the Total Cost of Ownership for Cerner clients through development on the “Logical Domains” enhancement enabling multiple clients to share the same installation (while maintaining all privacy & data separation)
- (2006) Increased efficiency of my team through the development of a number of internal “quick reference” plugins for the Eclipse platform to help developers as they migrated to the Java platform; Helped deliver bug fixes and enhancements to clients not on the most recent release through back-porting and merging code changes with an older release; Enabled better knowledge sharing between team members through the modernization and enhancement of the internal developer MediaWiki site.
- (2005) Investigated the causes & resolved a number of minor errors in monthly report calculations; Helped improve search results for a client by making enhancements to existing keyword search capabilities; Assisted in quickly determining the causes of and resolving a live database issue thus minimizing downtime for the client.
- (2004) Investigated & implemented methods to generate procurement labels; Designed the technical aspects of methods to generate inventory reports for a client

January 2003 – May 2003 | Undergraduate Research Assistant

COMPUTATIONAL INTELLIGENCE RESEARCH LAB | UNIVERSITY OF MISSOURI – COLUMBIA

- Helped develop the spoken command interface for the Guinness Robot Project using IBM’s ViaVoice software.

May 2002 – October 2003 | Software Developer

E-FICIENT BUSINESS SOFTWARE, LTD. / CONTINUUM HEALTH CARE LTD. | WAYNE, PA

- Developed procedures for Continuum Health Care’s OPUS (first report of injury) database improving / expanding performance in several areas including: client side form validation, remote file retrieval, record importation from foreign systems, and automated report generation.
- Saved the client time and money through the creation of automated email procedures for their billing application

Technical Skills

Expert:

- Windows XP, Gentoo Linux (x86), MacOS X, Microsoft Office, Eclipse, Subversion, Apache, MySQL, PHP, IPTables, SSH, MediaWiki, CCL (Cerner’s SQL-like Middleware Language), HTML, Java

Experienced:

- Ubuntu Linux, Oracle, JavaScript, Visual Basic, Maven, Active Directory

Familiar:

- C/C++, Haskell, 4th Dimension (Database Language)

References

Available Upon Request