

BRETT WALENZ

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OBJECTIVE

To obtain a position in a research and development company using my experience with natural language processing.

EXPERIENCE

11/8/2009 TO PRESENT

21st Century Systems, Inc.

Omaha, NE

ASSOCIATE SCIENTIST

- Research and development of information sharing and collaboration application. Led team in development of Flash-based decision making application for remote teams answering questions.
- Research and development of information extraction library. Utilized machine learning libraries for maximum entropy and support vector machines to provide support for named entity recognition, text classification, sentence parsing, and part of speech tagging.
- Development of probabilistic algorithms for deduction, abduction, and trust network management. Performed integration in web-based case management application and provided strategies for combining conflicting beliefs on open cases.

11/5/2005 TO 11/8/2009

21st Century Systems, Inc.

Omaha, NE

TECHNICAL LEAD/SOFTWARE ENGINEER

- Technical Lead for information sharing and hypothesis management application. Managed team of developers and provided technical direction for project.
- Technical Lead for collaborative scientific application. Java-based proof of concept for distributed collaboration between scientists at different national laboratories.
- Technical Lead for sensor management application. Responsible for initial proof of concept and deployment.
- Developed software for remote camera control, a Java-C++ bridge application which interfaced with pan/tilt/zoom camera system.

EDUCATION

FALL 2010 (EXPECTED)

University of Nebraska at Omaha

MASTER OF SCIENCE IN COMPUTER SCIENCE

- Specialization in Artificial Intelligence
- Thesis: Temporal Tracking of Named Entities
- Member:
 - KEWI – Knowledge Engineering and Web Intelligence group
 - CyWARN – Cyber Crime Warning System

2003

University of Nebraska at Omaha

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

TECHNICAL EXPERTISE

NATURAL LANGUAGE PROCESSING, MACHINE LEARNING, JAVA, WEB DEVELOPMENT

- Strong experience with Java NLP tools: GATE, OpenNLP, LingPipe
- Web development experience: Eclipse, J2EE, JQuery, jqPlot
- Analytical thinker consistently tasked with extremely difficult R&D projects