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# David A. Jurgens

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## Research Interests

Machine Learning, Distributed Computing, Neural Networks, Artificial Intelligence, Real Time Embedded Systems, Real Time Java, Operating Systems, Language Design, Language Theory, Neural Prosthetics, Neural Representation

## Education

*Washington University in St. Louis*  
B.A. in Philosophy and Political Science  
Minor: Computer Science  
Expected Graduation Date: May 2004

*Washington University in St. Louis*  
M.S. in Computer Science  
Masters Thesis in Computer Vision  
Expected Graduation Date: August 2004

## Work Experience

2002 – Present      **Washington University in St. Louis**

### Teaching Assistant

- Designed and implemented numerous software exercises that exemplified course objectives such as concurrency or design patterns for use as course homework.
- Proctored one or more lab session that included instructing students on course topics and evaluating performance of assigned projects.
- Graded project code and course exams, and reported grades to professor

Summer 2003      **Center for Distributed Object Computing at Washington University**

### Research Assistant

- Designed and implemented a large component based, distributed software project for unmanned aircraft, which is used in testing real-time Java in a large application framework.
- Developed a hard proof for the number of scoped memory areas necessary for the Reactor Pattern.
- Explored new software design concepts for object reuse as an alternative to garbage collection.

Summer 2002      **Midwest Kidney Centers.**      Peoria, IL

### Lead Programmer

- Designed and implemented software system to save over 100 man-hours a week.
- Presented and planned software options with executives.

1999 - Present      **Decatur Celebration Inc.**      Decatur, IL

**Roving Characters Chairman**

- Recruited volunteers to fill over 240 man hours of shifts during a three day festival
- Provided hospitality to numerous visiting entertainers
- Directed characters and entertainers during opening ceremonies and festival parade.

1997 - 2002      **4E's Tree Farm**      Decatur, IL

**Supervisor**

- Managed a crew of 3-4 other workers in farm maintenance
- Assisted in evaluating performance of other workers.
- Operated on and gave instruction on how to use heavy machinery

**Leadership Training**

**National Student Leadership Conference**      Washington D.C.

- Nominated for out of a national pool of exceptional students
- Participated in a week long training session on advanced leadership techniques

**Youth Leadership Institute**      Decatur, IL

- Participated in a monthly day long training session about a specific leadership topic

**Junior Leadership Training**      Decatur, IL

- Directed and participated in several weekend leadership sessions for training new leaders in the Boy Scouts

**Honors and Organizations**

Dean's List (5 Semesters)

Eagle Scout

Musician for the Lutheran  
Campus Ministries

Musician for the Catholic Student  
Center at Washington University

The Waldemar Estate