

DAVID D. ANDERSON, Ph.D. Student in Computer Science
Curriculum Vitae

University of Minnesota, Twin Cities
Department of Computer Science and Engineering
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Minneapolis, MN 55455
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EDUCATION

- 2009 - Present **Doctor of Philosophy, Computer Science**
University of Minnesota
Majors: Software Engineering/Critical Systems
Degree Status: In Progress
- 2006 - 2008 **Doctor of Philosophy, Computer Science**
George Mason University
Majors: Software Engineering/Software Architectures/Network Security
Qualifying exams passed: Information Security, Software Construction,
Software Architecture and Design
Degree Status: Did not graduate
- 2004 - 2006 **Master of Science, Software Engineering**
University of Maryland
Majors: Software Engineering/Information Assurance
Degree Status: Graduated May 30, 2006
- 2000 - 2004 **Bachelor of Science, Computer Science**
University of Maryland
Majors: Programming in Java and C++
Degree Status: Graduated May 15, 2004
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INDUSTRY EXPERIENCE

- 2009 - Present **University of Minnesota, Twin Cities**
Location: Minneapolis, MN
Position: Teaching Assistant/Researcher
- Primary responsibilities:* Conduct research on critical systems as a member of the Critical Systems Research Group (CriSys).

- 2008 - 2009 **Raytheon (U.S. Air Force)**
Location: El Segundo, California
Position: Principal Software Engineer
- Primary responsibilities:* Research the integration of Google Earth and the Keyhole Markup Language into legacy C and C++ software systems and conduct feasibility analysis and metrics collection. Develop tools for data synchronization across enterprise-wide international systems. Design and develop systems using UML, Java, Java EE, C and C++.
- 2006 - 2008 **Northrop Grumman (National Security Agency)**
Location: NSA, Annapolis Junction, Maryland
Position: Principal Software Engineer
- Primary responsibilities:* Research and development of numerous software systems using C++, Java and Java EE.
- 2005 - 2006 **CACI International (Central Intelligence Agency)**
Location: CIA, Langley, Virginia
Position: Staff Operations Officer
- Primary responsibilities:* Member of the Iraq Task Force in the Directorate of Operations.
- 2004 - 2005 **Harris Corporation (National Security Agency)**
Position: Senior Software Engineer
- Primary responsibilities:* Research and development of numerous software systems using C++, Java and Java EE.
- 2003 - 2004 **Titan Corporation (U.S. Army Intelligence and Security Command)**
Position: Software Engineer
- Primary responsibilities:* Research and development of a content management system to allow Army web developers and content managers throughout the world to log in remotely and manager their websites.
- 2003 - 2003 **Analytic Services, Inc. (The Pentagon)**
Position: Software Engineer
- Primary responsibilities:* Research the network infrastructure and improvement of throughput to provide recommendations on network upgrades for the Joint Staff at the Pentagon.
- 2003 - Present **U.S. Air Force Reserve**
Position: Intelligence Analyst

Primary responsibilities: Research foreign government militaries, country studies, leaders, weapon systems and collection capabilities. Disseminate findings in written reports and oral presentations to military leaders, pilots and ground forces. Deployed to Iraq for 6 months in support of Operation Iraqi Freedom (OIF). Duties included HUMINT collection, ground combat operations, mission briefs, debriefing, targeting, training Iraqi Police, convoy operations, mounted and dismounted patrol, etc.

1999 - 2003

U.S. Air Force (Active Duty)

Position: Intelligence Analyst

Primary responsibilities: Research foreign government militaries, country studies, leaders, weapon systems and collection capabilities. Disseminate findings in written reports and oral presentations to military leaders, pilots and ground forces. Deployed overseas for 6 months in support of Operation Enduring Freedom (OEF). Duties included targeting, mission briefs, debriefing, etc.

Programming Languages:

Java, Java EE, C, C++, Ruby, Python, C#, Visual Basic, ColdFusion, Perl, UNIX shell scripting, Windows shell scripting, JavaScript, AJAX, XML, HTML, SQL, ANT

TEACHING EXPERIENCE

2009 – Present

Teaching Assistant, University of Minnesota, Twin Cities

Department: Computer Science and Engineering

Primary responsibilities: Teaching Assistant for graduate course in Software Engineering. Responsibilities include grading homework and exams, assisting students with course materials and attending lectures.

2006 - Present

Adjunct Instructor, University of Maryland, University College

Department: Computer and Information Science

Primary responsibilities: Teach undergraduate courses in computer science topics such as programming languages, software architecture and network security.

Professional Affiliations:

2006 - Present

Project Management Institute – Project Management Professional (PMP)

1999 - Present

IEEE – Student member

1999 - Present

ACM – Student member

1999 - Present

INCOSE – Student member