

BYRON J. WILLIAMS

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Research Interests

Software Engineering: Empirical Software Engineering, Software Architecture, Software Change Management, Requirements Engineering, Software Engineering Risk Analysis

Education

- 5/06 M.S., Computer Science, Mississippi State University
Thesis Title: Assessing the Impact of Software Changes to Software Architecture: A Change Classification Approach
Advisor: Dr. Jeffrey Carver
- 5/04 B.S. Computer Science, Mississippi State University

Work Experience

- 1/05 – present **Graduate Research Assistant**, Empirical Software Engineering Research Group, Department of Computer Science and Engineering, Mississippi State University
- 8/04 – 12/04 **Teaching Assistant**, Department of Computer Science and Engineering, Mississippi State University
- 8/03 – 5/04 **Undergraduate Research Assistant**, Empirical Software Engineering Research Group, Department of Computer Science and Engineering, Mississippi State University
- 5/03 – 8/03 **Student Developer: Summer Bridge Program**, Mississippi Department of Environmental Quality & Mississippi State University
Assisted in transforming a legacy FORTRAN water quality analysis program into a Java application that uses an Oracle DBMS.
- 5/00 – 8/02 **Information Services Technical Specialist/Web Application Developer**, Miller Transporters, Inc. & Mississippi State University Cooperative Education Program
Provided technical support to Miller employees at their home office and 26 remote terminal locations. Developed web applications using Java to provide access to centralized data for all Miller employees.

Publications

Byron J. Williams, J. Carver, R. Vaughn, "Change Risk Assessment: Understanding Risks Involved in Changing Software Requirements," The 2006 International Conference on Software Engineering Research and Practice (SERP'06), Las Vegas, NV, 2006.

Honors and Awards

Member of the Mississippi State University Chapter of Upsilon Pi Epsilon Computer Science Honor Society

1st Place – Bulldog Toastmasters Speaker Showcase Competition – 2005

2nd Place – James Worth Bagley College of Engineering Business Plan Competition – 2004

Teaching Assistant of the Year for the Department of Computer Science and Engineering 2004-2005 – Mississippi State University

1st Place - The 2005 Alliance for Graduate Education in Mississippi (AGEM) Winter Symposium poster presentation entitled, "A Comparison of the Rational Unified Process (RUP) and the Object-Oriented Process, Environment Notation (OPEN): Software Development Processes"

Student Association Housing Committee

Alliance for Graduate Education in Mississippi (AGEM) Fellow
MSU Alumni Association Scholarship
MSU Leadership Scholarship
Mr. Lanier High School, Jackson MS 97 – 98

Activities

Judge – National Black Graduate Student Association Poster Competition
James Worth Bagley College of Engineering President's Roundtable Member
Member - National Black Graduate Student Association
President - Bulldog Toastmasters Club, 2004, 2006
President - Engineering Entrepreneurship Club, 2004-2005
President - Generation 6:20 Campus Ministry, 2005-2006
EPSCOR Summer Bridge Program – 2003
Presenter - 2005 Graduate Research Symposium MSU - TITLE: "Understanding the Impact of Software Changes to the Software Lifecycle"
Class Representative - MSU Chapter of the Association for Computing Machinery (ACM)
IMAGE (Increasing Minority Access to Graduate Education)
Cooperative Education Program (5 Semesters)