WILLIAM GREGORY JOHNSON

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EDUCATION

Georgia State University

Ph. D. in Computer Science Fall 2020

Dissertation: "Education Research Using Data Mining and Machine Learning with Computer Science Undergraduates" Advisor: Anu G. Bourgeois; Committee: Raj Sunderraman, Yubao Wu, Melinda K. Higgins

Georgia State University

M.S. in Computer Science 2004

Thesis: "Relaxed Transaction Model for Composite Web Services Using XML." Advisor: Sushil Prasad; Committee: Raj Sunderraman; Erdogan Dogdu

University of North Alabama

B.A. in Computer Science 1986

Minor: Mathematics

CERTIFICATIONS / PROFESSIONAL DEVELOPMENT

SIGCSE 2021 (online)

Professional Development for Teaching Track Faculty 2021

1/2-day Pre-Symposium Event, hosted by Computing Research Association (CRA)

University of Massachusetts, Amherst (online)

CDER – Center for Parallel and Distributed Computing Curriculum Dev and Ed Resources 2020

5-day training program to integrate PDC in introductory CS classes

Microsoft Corporation

MCPD - Microsoft Certified Professional Developer 2010

ASP.NET, Web Developer

Microsoft Corporation

MCSE - Microsoft Certified Systems Engineer 1999

Windows Server Operating Systems

AWARDS

Graduate Research Intensive Program Scholar – Georgia State University

August 2019

Outstanding Graduate Teaching Award – Georgia State University March 2019

Brains and Behavior Neuroscience Fellowship – Georgia State University May 2017

Advisor of the Year – Georgia Perimeter College May 2015

Affordable Learning in Georgia Grant (PI) - \$10,800 - Georgia Perimeter College

August 2014 – June 2015

Office of Information Technology Grant (PI) - \$350 - Georgia Perimeter College January 2012 - May 2012

EXPERIENCE

Georgia State University - Atlanta, GA (online)

University Lecturer of Computer Science

CSC-4350/6350 – "Software Engineering" (Instructor, 2 sections)
 CSC-1302 – "Principles of Computer Programming II" (Instructor)
 CSC-4350/6350 – "Software Engineering" (Instructor)
 CSC-1302 – "Principles of Computer Programming II" (Instructor, 2 sections)
 Fall 2020

Georgia State University – Atlanta, GA (classroom)

Graduate Teaching and Assistant of Computer Science

CSC-3210 – "Computer Organization and Programming" (Lab Instructor)
 CSC-4350/6350 – "Software Engineering" (Instructor)
 CSC-1302 – "Principles of Computer Science - II" (Lab Instructor)
 CSC-4350/6350 – "Software Engineering" (Instructor)
 Fall 2019
 Fall 2018

CSC-4350/6350 – "Software Engineering" (Instructor)
 CSC-4350/6350 – "Software Engineering" (Teaching Asst.)
 CSC-4350/6350 – "Design and Analysis of Algorithms" (Teaching Asst.)
 CSC-4350/6350 – "Software Engineering" (Instructor)
 Spring 2017

Georgia Perimeter College - Clarkston, GA (classroom)

Instructor of Computer Science

- CSC-1010 "Introduction to Computing" (5 times)
- CSC-1300 "Introduction to Computer Science" (11 times)
- CSC-1301 "Principles of Computer Science I" (5 times)
- CSC-1302 "Principles of Computer Science II" (9 times)

Adjunct Instructor of Computer Science

• CSC-1300 – "Introduction to Computer Science"

American Sentinel University - Aurora, CO (online)

Adjunct Instructor of Computer Science

- CSC105 "Introduction to Computer Science"
- CSC130 "Fundamentals of Programming with C++"

Excelsior College - Albany, NY (online)

Adjunct Instructor of Computer Science

• IT418 – "Software Systems Analysis and Design"

PeopleNet, Inc.

Software Engineer

Created data interfaces between their corporate scheduling system and customers' time and attendance systems. Redesigned and programmed a new billing system to integrate their enterprise transaction systems with Quicken.

American Sentinel University

Adjunct Faculty

StudioCom

Software Developer

A developer and data analyst for an advertising agency and web campaign company using C# 3.5 classes to deploy SpringFramework.NET for loading data to a Vertica DBMS running in Amazon's cloud solution. I also created XML command files that controlled the ETL processes (.NET programs) to load into the data repository.

ChannelAdvisor Corporation

Software Developer

A developer using a strict AGILE /SCRUM methodology with C#.NET 2.0/3.5, MS SQL 2005, and PostGreSQL 8. I also created web controls to validate data inputs, created and modified SQL stored procedures, used OOO models for data abstraction.

RaceTrac Petroleum, Inc.

Software Developer

Conversion of classic ASP to .NET (1.1) and refactoring SQL procedures (over 30,000 lines) for reports in Lawson HR.

Excelsior College

Adjunct Faculty

Echelongate, LLC.

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Designed, created, managed and implemented an IS project for a web services systems for client intake using Apache Tomcat, Microsoft IIS, JDBC for Microsoft SQL database on Small Business Server. Used UML to articulate the results from analyzed business needs and created interface layers in HTML, CSS, and JavaScript. Tested the software to meet specifications that were architected from discovery and requirement analysis cycles and develop the middleware using Java, Java servlets, and IIS. I delivered training classes on the end product and MS Office.

Graduate School – Georgia State University

Student, tutor, research assistant

Fall 2011 - Spring 2012

Fall 2012 - Spring 2016

Fall 2009 – Fall 2011

Fall 2005 – Spring 2007

February 2011 – July 2012

January 2010 - December 2011

April 2010 - May 2010

June 2008 - May 2009

October 2006 - May 2008

March 2006 – July 2007

May 2004 – January 2006

August 2001 - April 2004

Microsoft Corporation

Software Consultant

Ensured system integration to other client server systems using proven industry standard methodologies. Provided communications between executive and end user groups on a \$1.5M project. Analyzed and developed training courses for this web-enabled, multi-tier system. Used SDLC with industry methodology (Microsoft Solutions Framework) to deploy a .NET distributed application for the US Army Reserve Command.

Systems Engineer

Member of sales team focused on enterprise tier customers. Performed technical and knowledge transfer presentations related to business solutions for audiences of business "C suite" to technical users. I was a product evangelist with highest awards (125% of goal) for sales, account planning, and Internet strategy.

Federated Department Stores

Systems Programmer and Analyst

Designed and supported Intranet solutions for Federated Department Stores (Bloomingdales, Bon Marché, Burdines, Macy's, and corporate.) I provided application support for Bon Marché division. Supported international buyer system in fifteen countries with over 850 Servers and 5000+ nodes. I improved existing and developed new procedures for network operations, intranet provisioning, and replication design of content.

Center for Disease Control and Prevention

Programmer Analyst

I delivered national health conference presentations of information systems and designed workshops for computer developer and government official audiences. I administered the Windows network for the developers under my program management (4 employees) and had evaluation and hire authority of software consultants and implementation of a national public health information network. Internet technology research for NT Server (HTML, RPC, WWW, Encryption, etc.) Information system software design, and performed CIO duties (7 months) while position was hired.

US Department of Agriculture

Programmer Analyst

I delivered database-programming support in the regional data center for systems on a Novell 3.x LAN with 150 nodes (WordPerfect, Lotus 123, dBase III+, and ZyIndex).

Tennessee Valley Authority

Programmer Analyst

Evaluated database software for office automation. Implementation and data network design for a 3000 node broadband network of Wang computer systems. Installed and upgraded network design for capacity planning and agency growth of over 4000 employees.

PUBLICATIONS, PAPERS, AND PRESENTATIONS

Education Research Using Data Mining and Machine Learning with Computer Science Undergraduates PhD dissertation defense and presentation, https://scholarworks.gsu.edu/cs_diss/163/ Georgia State University, Atlanta

Teaching Strategies in Software Engineering Towards Industry Interview Preparedness
CSERC '20: 9th Computer Science Education Research Conference (CSERC '20), Leiden, Netherlands;
DOI: 10.1145/3442481.3442500 ISBN: 978-1-4503-8872-6/20/10

Predictors of Performance in Computer Science Algorithms

ICERi2020: 13th annual International Conference of Education, Research and Innovation, Seville, Spain; DOI: 10.21125/iceri.2020.0513 ISBN: 978-84-09-17979-4

Data Mining and Machine Learning in Education with Focus in Undergraduate CS Student Success Doctoral Consortium: ICER 2018, Espoo, Finland; DOI: 10.1145/3230977.3231012

Performance Impact of Computer Science Course Load and Transfer Status
Poster: ACM SIGCSE 2018, Baltimore, MD; DOI: 10.1145/3159450.3162287

What About Big Data and Nursing?

Article: American Nurse Today, https://www.americannursetoday.com/big-data-nursing/

March 1997 - July 2001

March 1995 – March 1997

August 1990 - March 1995

March 1989 – August 1990

May 1985 - March 1989

2020

2020

2020

2018

2018

2018

2018

Communities in Atlanta, GA

Five-Star Refugee Program

Project Open Hand

Atlanta History Center

2001 - 2005

2000 - 2004

1992 - 1994

1989 – 1991

	Query Implementations of High Dimensional Objects Using Space-Filling Curves Presentation for Data Mining Lab, Georgia State University, Atlanta, GA	2016
	riesentation for Data Willing Lab, Georgia State Oniversity, Atlanta, GA	2010
	Using Open Educational Resources to Develop a Flipped Course Model.	
	Presentation for the USG Teaching and Learning Conference, University of Georgia, Athens, GA	2015
	Using Mobile Technology in the Classroom.	
	Presentation for the GPC Technology Conference, Georgia Perimeter College, Clarkston, GA	2014
	What is Computer Science?	
	Presentation for the MESA workshops, Georgia Perimeter College, Dunwoody, GA	2013
	Computational Intelligence for a Decision Support System to Predict Nursing Coverage in a Geriatric Care Facilit	у
	Paper presented at the 9 th International Congress for Nursing Informatics, Seoul, South Korea	2006
	A Relaxed Transaction Model for Composite Web Services Using XML	
	Master's thesis defense and presentation, Georgia State University, Atlanta	2004
LANGUAGES		
	English – native language	
	French – speak, read, and write with basic competence	
MEMBERSHIPS		
	Association of Computing Machinery (ACM) – Professional Level	
	ACM/Special Interest Group: Computer Science Education	
	Institute of Electrical and Electronics Engineers (IEEE) – Additional Groups: Computer Society and Education So	ciety
SE	RVICE	
	Georgia State University	
	CS Undergraduate Curriculum Committee Member	Spring 2021 - current
	Bylaws Committee Member	Fall 2020 - current
	Quality Coordinator for Undergraduate Curriculum	Fall 2020 - current
	Course Coordinator for CSC – 1302	Fall 2020 - current
	Course Coordinator for CSC – 4350	Fall 2020 - current
	Georgia Perimeter College	
	Faculty Advisor for Clarkston Computing and Engineering Club	2012 - 2015
	Faculty Academic and Career counseling for students	
	Campus Learning and Tutoring Center	

I was a tutor for high school students that were relocated to the US from war-torn countries of the Middle East.

I volunteered preparing meals to be delivered to people disabled with HIV related illnesses.

I volunteered six hours a week as a docent for the Swan House tours and special events.

I volunteered four hours a week to help with the mission's computer network, database systems, and PC maintenance.