

WILLIAM GREGORY JOHNSON

3530 Paces PL NW, Atlanta, GA 30327 | 404-348-6923 | Wjohnson6@student.gsu.edu | <https://williamgregoryjohnson.github.io>

EDUCATION

Georgia State University Ph. D. Candidate – Full Time Computer Science	2017- Current
Ph. D. Student – Full Time Computer Science	2016 - 2017
Microsoft Corporation MCPD - Microsoft Certified Professional Developer ASP.NET, Web Developer	2010
Georgia State University M.S. in Computer Science Thesis: “Relaxed Transaction Model for Composite Web Services Using XML.” Advisor: Sushil Prasad; Committee: Raj Sunderraman; Erdogan Dogdu	2004
Microsoft Corporation MCSE - Microsoft Certified Systems Engineer Windows Server Operating Systems	1999
University of North Alabama B.A. in Computer Science Minor: Mathematics	1986

AWARDS

GRIP 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

TEACHING EXPERIENCE

Georgia State University – Atlanta, GA (classroom) Graduate Teaching and Assistant of Computer Science <ul style="list-style-type: none">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)CSC-4350/6350 – “Software Engineering” (Instructor)CSC-4350/6350 – “Software Engineering” (Teaching Asst.)CSC-4520/6520 – “Design and Analysis of Algorithms” (Teaching Asst.)CSC-4350 – “Software Engineering” (Instructor)	Spring 2020 Fall 2019 Spring 2019 Fall 2018 Spring 2018 Fall 2017 Summer 2017 Spring 2017
Georgia Perimeter College – Clarkston, GA (classroom) Instructor of Computer Science <ul style="list-style-type: none">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)	Fall 2012 – Spring 2016

Adjunct Instructor of Computer Science

- CSC-1300 – “Introduction to Computer Science”

Fall 2011 – Spring 2012

American Sentinel University – Aurora, CO (online)

Adjunct Instructor of Computer Science

- CSC105 – “Introduction to Computer Science”
- CSC130 – “Fundamentals of Programming with C++”

Fall 2009 – Fall 2011

Excelsior College – Albany, NY (online)

Adjunct Instructor of Computer Science

- IT418 – “Software Systems Analysis and Design”

Fall 2005 – Spring 2007

INDUSTRY EXPERIENCE

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.

February 2011 – July 2012

American Sentinel University

Adjunct Faculty

January 2010 – December 2011

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.

April 2010 – May 2010

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.

June 2008 – May 2009

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.

October 2006 – May 2008

Oldcastle, Inc.

Software Analyst

The project designer for n-tier system for enterprise reporting using Hyperion, ASP.NET 1.1, IIS 6, MS SQL 2005, Microsoft Axapta. I evaluated enterprise-reporting solutions: MS Reporting Service, Hyperion, Cognos, and CyberQuery for implementation across 300+ locations. Wrote proposal to buy a \$1M system.

January 2006 – October 2006

Excelsior College

Adjunct Faculty

March 2006 – July 2007

Echelongate, LLC.

Owner

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.

May 2004 – January 2006

Graduate School –Georgia State University

Student, tutor, research assistant

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.

March 1997 – July 2001

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.

March 1995 – March 1997

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.

August 1990 – March 1995

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).

March 1989 – August 1990

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.

May 1985 – March 1989

PUBLICATIONS, PAPERS, AND PRESENTATIONS

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](https://doi.org/10.1145/3230977.3231012)

2018

Performance Impact of Computer Science Course Load and Transfer Status
Poster: ACM SIGCSE 2018, Baltimore, MD; DOI: [10.1145/3159450.3162287](https://doi.org/10.1145/3159450.3162287)

2018

What About Big Data and Nursing?
Article: American Nurse Today, <https://www.americannursetoday.com/big-data-nursing/>

2018

Query Implementations of High Dimensional Objects Using Space-Filling Curves
Presentation for Data Mining Lab, Georgia State University, Atlanta, GA

2016

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 Facility

Paper presented at the 9th 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 - Special Interest Group: Computer Science Education

Institute of Electrical and Electronics Engineers (IEEE) – Additional Groups: Computer Society and Education Society

SERVICE

Georgia Perimeter College

Faculty

Faculty Advisor for Clarkston Computing and Engineering Club

2012 - 2015

Faculty Academic and Career counseling for students

Campus Learning and Tutoring Center

Communities in and Around Atlanta

Five-Star Refugee Program

2001 – 2005

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

AID Atlanta

2000 – 2004

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

Project Open Hand

1992 – 1994

I volunteered Saturday mornings (five hours) to prepare meals to be delivered to people disabled with HIV related illnesses.

Atlanta History Center

1989 – 1991

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