

# Charles C. Carter

## Information Technology and Data Analytics Professional

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### ABOUT

Information technology and data analytics professional, currently instructing Cloud Application Development. Language proficiencies include C#, R, Python, Perl. Database proficiencies include SQL Server, SQLite, PostgreSQL, MySQL. Master of Science degrees in Applied Computer Science, Software Engineering, and Analytics (in progress). ABD in Software Engineering.

### EDUCATION

*Master of Science Candidate (grad Dec. 2021), Analytics*  
**Georgia Institute of Technology**, Atlanta, Georgia

*Ph.D. Candidate (ABD), Software Engineering*  
**Auburn University**, Auburn, Alabama

*Master of Science, Software Engineering*  
**Auburn University**, Auburn, Alabama

*Master of Science, Applied Computer Science*  
**Columbus State University**, Columbus, Georgia

*Bachelor of Arts, History*  
**Mercer University**, Macon, Georgia

*no degree, Mathematics*  
**Columbus State University**, Columbus, Georgia

### EXPERIENCE

*Instructor (full time)* January 2020 to current  
**Embry Riddle Aeronautical University**, Marine Base Quantico, Virginia 22134

- Instructor for the Microsoft Software and Systems Academy, Cloud Application Development
- (see below for full list)

*Instructor (full time)* May 2017 to December, 2019  
**Embry Riddle Aeronautical University**, Fort Benning, Georgia 31905

- Instructor for the Microsoft Software and Systems Academy, Cloud Application Development
- T-SQL, SQL Server, SQL fundamentals
- Programming in C#, program development and design
- ASP.NET, developing cloud applications
- Azure, Microsoft SQL Database, Azure application development

*Instructor (adjunct)* August 2017 to current  
**Columbus State University**, 4225 University Avenue, Columbus, Georgia, 31907

- Software Engineering
- Advanced Database

*Quantitative Analyst* Dec 2014 to October, 2015  
**Synovus Bank**, 33 West 11th Street, Columbus, Georgia 31901

- developed reproducible research automation with knitr and L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>
- developed mapping applications with ggmap, choroplethr, and other R packages
- assisted in the development of automated data cleaning and rationalization procedures
- assisted in SDLC activities (SRS, BRD, FRD, and design documents)

*Database Manager*

Nov 2004 to Nov 2014

**Troy University**, 506 Manchester Expressway, Suite B20, Columbus, Georgia, 31904

- automated enrollment, registration, and term processes
- developed and maintained systems for reporting and analysis of academic data
- developed and administered databases supporting critical university functions
- implemented applications and programs as needed to support university needs

*System administrator, developer*

Jan 2001 to Dec 2013 (part time)

**CFGGroup**, 2315 Edgewood Road, Columbus, Georgia, 31904

- administered HTTP (Apache) and database servers (MySQL)
- administered operating systems (SunOS and Linux)
- developed database driven web applications

*Student, graduate assistant*

May 2002 to May 2004

**Columbus State University**, 4225 University Avenue, Columbus, Georgia, 31907

- supervised student labs and tutored students
- administered Computer Science departmental servers (Linux, LinuxSE, FreeBSD)

*Instructor*

Jan 2000 to May 2002

**Columbus Technical College**, 928 Manchester Expressway, Columbus, Georgia, 31904

- taught Web Development curriculum (HTML, CSS, JavaScript, serverside development, database development, etc.)
- taught computer literacy, web development, and programming languages
- administered web servers for faculty and student web program (FreeBSD and Linux)

## TECHNICAL CERTIFI- CATIONS

TSQL Querying (Exam # 70-761)

Information Security Professional CNSS/NSA4011

UNIX/Linux System Administration

Windows 2000 Network Administration

Web Site Design

Signal Officer Basic Course

Microsoft Corporation

Auburn University, Auburn, AL

Dekalb Technical College, Decatur, GA

Columbus Technical College, Columbus, GA

Columbus Technical College, Columbus, GA

U. S. Army Signal Corps, Fort Gordon, GA

## TECHNICAL PROFICIEN- CIES

- *Programming Languages:* C#, Python, R, Octave, Perl, Common Lisp
- *RDBMS:* SQL Server, SQLite, PostgreSQL, MySQL
- *Visualization Software:* Tibco Spotfire
- *Operating systems:* Linux, Solaris, FreeBSD, Windows 2000
- *Web Scripting Technologies:* HTML, CSS, XML, XSLT, JavaScript
- *Office Applications:* Word, Excel, Access, PowerPoint, Outlook
- *Other:* Vim (vi), L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, graphviz, dia, git & github

## COMMUNITY SERVICE

- Columbus (Ga.) Data Science Meetup
- Taught programming courses for the Columbus home school association
- Tutored public school students in math
- Active in Gideons International
- Piper, Mercer University Pipes and Drums