

Charles C. Carter

Information Technology and Data Science Professional

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SKILLS

Classroom instruction
Data analysis and reporting
Predictive modeling and quantitative analysis
Report automation, design, development, testing, and maintenance
Agile processes: requirements engineering, documentation, training, etc.
Scripting with bash, Perl, JavaScript, and Python
Web application programming, GUI interface development
Database application programming, database management
Database server administration (SQLite, MySQL, PostgreSQL, SQL Server)
Institutional research and reporting

EDUCATION

Ph.D. Candidate, 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, English Literature
Mercer University, Macon, Georgia

no degree, Mathematics
Columbus State University, Columbus, Georgia

EXPERIENCE

Instructor (full time) May 2017 to current
Embry Riddle Aeronautical University, AEC, Ft. Benning, Georgia 31905

- Instructor for the Microsoft Software and Systems Academy
- 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 \LaTeX 2 ϵ

- 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

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 PROFICIEN- CIES

- *Programming Languages*: Perl, **R**, Python, Octave, C#, Java, Common Lisp
- *R Packages*: knitr, caret, ggplot2, dplyr
- *RDBMS*: SQL Server, SQLite, MySQL, PostgreSQL
- *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), \LaTeX 2 ϵ , graphviz, dia, git & github

TECHNICAL CERTIFI- CATIONS

Data Science Specialization

Machine Learning

Information Security Professional CNSS/NSA4011

UNIX/Linux System Administration

Windows 2000 Network Administration

Web Site Design

Signal Officer Basic Course

Coursera, Johns Hopkins University

Coursera, Stanford University

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

COMMUNITY SERVICE

- Teaching programming courses for the Columbus home school association
- Tutoring public school students in math
- Active in Gideons International