

# Charles C. Carter

## Information Technology and Data Science Professional

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### SKILLS

Institutional research and reporting  
Data analysis  
Process and report automation  
Database application programming, database management  
Web application programming, web site development  
Systems administration (Linux, BSD, Solaris, Windows 2000)  
Web server administration (Apache, Tomcat)  
Database server administration (SQLite, MySQL, PostgreSQL, SQL Server)  
Predictive modeling and quantitative analysis  
Microsoft Office (Word, Excel, PowerPoint, Access, Outlook)

### 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

### EXPERIENCE

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

- developed reproducible research automation with knitr and  $\text{\LaTeX}$  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)  
**CFGroup**, 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 computer literacy, web development, and programming languages
- administered web servers for faculty and student web program (FreeBSD and Linux)

## TECHNICAL PROFICIEN- CIES

- *Programming Languages*: R, Python, Perl, Java, Octave, 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), L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, graphviz, dia, git & github

## TECHNICAL CERTIFI- CATIONS

*Data Science Specialization*

**Coursera** (Johns Hopkins University)

*Machine Learning*

**Coursera** (Stanford University)

*Information Security Professional (CNSS/NSA 4011)*

**Auburn University**, Auburn, Alabama

*UNIX/Linux System Administration*

**Dekalb Technical College**, Decatur, Georgia

*Windows 2000 Network Administration*

**Columbus Technical College**, Columbus, Georgia

*Web Site Design*

**Columbus Technical College**, Columbus, Georgia

*Signal Officer Basic Course*

**U. S. Army Signal Corps**, Fort Gordon, Georgia