

Charles C. Carter

Information Technology and Data Science Professional

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SKILLS

Data analysis
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
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

Student January 2016 to present
Columbus State University, 4225 University Avenue, Columbus, Georgia, 31907

- taking classes in math (calculus, linear algebra, statistical programming, etc.)

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

- developed reproducible research automation with knitr and L^AT_EX 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

- 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 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^AT_EX 2_ε, 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

COMMUNITY SERVICE

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