

<b>EDUCATION</b>	<p><b>Master of Computer Science (expected Dec 2019)</b>, The University of Illinois at Urbana-Champaign  <b>Specialization:</b> Data Science</p> <p><b>Bachelor of Science in Business Administration</b>, with distinction, The University of Alabama  <b>Majors:</b> Philosophy, Management Information Systems      <b>Honors:</b> International Honors,  <b>Minors:</b> Computer Science, Computer-Based Honors Research      University Honors, Mallet Assembly</p> <p><b>Other education:</b> Microsoft Certified Professional Developer: Enterprise Architect, Machine Learning (Stanford), Design Thinking for Business Innovation (Univ. of Virginia), Algorithm design (Princeton), Computing for Data Analytics (Johns Hopkins), Gathering and Cleaning Data (Johns Hopkins), Introduction to Music Theory (Univ. of Edinburgh), K2 Solutions Professional (K2 Learning), Microsoft Certified Solution Developer, Python and Python APIs (Codecademy)</p>
<b>TECHNICAL EXPERIENCE</b>	<p><b>Languages:</b> Python, R, C#, ASP.NET MVC, WebAPI, F#, C/C++, WPF/XAML, .NET Compact Framework, Java, SQL, Matlab, HTML5, CSS3, Javascript, Node.js, React</p> <p><b>Tools:</b> NumPy, SciPy, TensorFlow, Tableau, AWS, Azure, D3, Selenium, MSMQ, Ant/NAnt, Oracle, MS SQL Server, SQLite, MS SQL Server Mobile, jQuery, Datalog, DB2, Apache, Tomcat, Maven, Axis2, MS Office automation</p> <p><b>Techniques:</b> Classification, regression models, clustering, data visualization, natural language processing, topic modeling, sentiment analysis, time-series forecasts, 'deep learning' neural networks</p>
<b>OTHER SKILLS</b>	<p>People management, project management, remote work experience, scrum master, experience in statistical analysis, recommender systems, data acquisition, data cleaning, test-driven development, domain-driven development, performance analysis, highly API-fluent apps, commercial lending experience</p>
<b>EXPERIENCE</b> 2014 – Present	<p><b>Technical Lead</b>, SunTrust Banks (remote)</p> <ul style="list-style-type: none"> <li>• Shorten development timelines by refactoring myriad legacy apps into reusable SOA components</li> <li>• Greatly reduce bugs found in production by introducing automated testing and code metrics</li> <li>• Reduce effort and human error through continuous integration and continuous deployment</li> <li>• Improve app performance by finding and resolving bottlenecks in distributed banking systems</li> <li>• Coach teams and mentor individuals on agile mindset and Scrum practices</li> <li>• Perform code reviews and department presentations on industry trends and emerging technologies</li> </ul>
2012 – 2014	<p><b>Team Lead and Company Bartender</b>, Kabbage, Atlanta, GA</p> <ul style="list-style-type: none"> <li>• Designed machine-learning-based credit-underwriting engine central to company's product</li> <li>• Built scalable cloud-based data-collection/processing platform targeting multiple third-party APIs</li> <li>• Lowered cloud-computing costs and increased availability by creating IaaS-management tools</li> <li>• Led cross-functional team in work sprints, Scrum ceremonies, and performance reviews</li> <li>• Created and managed tools using NAnt/XSLT to validate server configuration during deployment</li> <li>• Assisted in vendor contract negotiations and road-mapping a switch in financial system-of-record</li> <li>• Refactored multi-threaded distributed logging system to increase throughput while adding features</li> <li>• Crafted exceptional libations to celebrate each successful release (Appletini, Bellini, Commodore, ...)</li> </ul>

- 2010 – 2012      **Solution Developer**, Avanade, Atlanta, GA (consulting)  
**Clients:** Coca-Cola, UPS, non-public healthcare provider, PepsiCo
- Architected conversion of legacy C++ to WPF/MVVM multi-billion-dollar critical customer-facing app
  - Led team of developers in prioritizing, building proof-of-concept applications for sales demos
  - Improved maintainability in legacy code by introducing design patterns and new language features
  - Worked with legal and subject-matter experts to design intuitive, compliant healthcare frameworks
  - Integrated data-warehouse into Excel workflows to perform sales forecasting
- 2009 – 2010      **Senior IT Developer**, The Home Depot, Atlanta, GA (contract)
- Wrote mobile apps for inventory management and credit-card sale processing
  - Assisted in creation of UX style-guide used enterprise-wide for employee-facing apps
  - Integrated offshore development and testing teams with onshore efforts
  - Worked full shifts in stores to gain users' ongoing insights and feedback on deployed applications
- 2006 – 2009      **Solution Developer**, Avanade, Atlanta, GA (consulting)  
**Clients:** US Postal Service, AutoTrader.com, Charter Communications
- Led and mentored a multi-site team of developers and testers
  - Built and managed product roadmap for mission-critical mobile platform and apps (150k devices)
  - Wrote hardware abstraction layer to deploy apps on varying hardware/OS/peripheral combinations
  - Designed customizable integration-test platform for mobile applications
  - Performance-tested and optimized SOA-based web service platform and underlying subsystems
  - Designed AJAX/jQuery libraries to capture fine-grained user analytics on high-volume sites
- 2001 – 2006      **Other highlights from the first five years**  
**Employers:** AT&T, Gulf States Paper, AON-Hewitt, Univ. of Alabama Helpdesk
- Saved \$5MM / 2yr years with predictive analytics of factory downtime
  - Used computer-vision to recognize downtime causes, linked to current shift staffing, inventory, &c.
  - Maintained the 401(k) and benefit plans for 120,000 plan participants across 10 client companies
  - Detected insider-trading patterns in investment data using statistical packages
  - Developed inventory-tracking and logistics applications for regional and national supply chains

## HONORS, ACTIVITIES

National Merit Scholar  
 JL Bedsole Scholar  
 Randall Research Scholar  
 Bacon Number of 3 (Dec '18 Average: 3.027)

Dean's List, three years  
 National Dean's List, two years  
 Alabama Information Management Society  
 Blue belt in Brazilian Jiu-Jitsu