

**EDUCATION**    **Master of Computer Science**, The University of Illinois at Urbana-Champaign    **Specialization:** Data Science

**Bachelor of Science in Business Administration**, with distinction, The University of Alabama

**Majors:** Philosophy, Management Information Systems

**Honors:** International Honors Program,

**Minors:** Computer Science, Computer-Based Honors Research

University Honors, Mallet Assembly

**Ongoing education:** Microsoft Certified Solution Developer, Microsoft Certified Professional Developer: Enterprise Architect, K2 Solutions Professional (K2 Learning), Machine Learning (Stanford), Design Thinking for Business Innovation (Univ. of Virginia), Computing for Data Analytics (Johns Hopkins), Gathering and Cleaning Data (Johns Hopkins), Introduction to Music Theory (Univ. of Edinburgh), Algorithm Design (Princeton), Python and Python APIs (Codecademy), Model Thinking (Michigan), Leadership through Emotional Intelligence (Case-Western Reserve University)

**EXPERIENCE**    **Director of Technology**, Spire Digital, Denver, CO

Apr 2019 -  
Present

- Grew a new account to be the company's largest client in both team size and revenue
- Manage delivery teams' organizational structure, practices, and headcount
- Responsible for realizing Gross Margin and Client Satisfaction metrics
- Design predictive machine-learning models to lower customer wait times
- Promote developer education through lunch-and-learns and mini-hackathons
- Referred warm sales leads to sales executives to win marketing and data-science projects
- Assisted startup in maturing and scaling processes to facilitate acquisition by multinational company
- Served as lead architect and first developer on enterprise data platform

Feb 2014 -  
Mar 2019    **Technical Team Lead**, SunTrust Banks (now Truist), Atlanta, GA

- Shortened development timelines by refactoring myriad legacy monoliths into cloud-capable microservices
- Greatly reduced bugs found in testing and production by introducing automated testing and code metrics
- Reduced effort and human error in releases through continuous integration and continuous deployment
- Improved app performance by finding and resolving bottlenecks in distributed banking systems
- Coached teams on agile mindset and Scrum development practices
- Influenced department culture of craftsmanship, by specializing in code review and mentoring

Mar 2012 –  
Jan 2014    **Team Lead and Company Bartender**, Kabbage, Atlanta, GA

- Designed and built machine-learning-powered credit underwriting engine central to company's product
- Built scalable cloud-based data-collection platform targeting multiple third-party APIs
- Built data-processing workflow library based on cloud-based message queueing systems
- Created tools to automate AWS infrastructure management and responsive design web application to perform these tasks on-demand from employees' phones
- Implemented responsive design for public-facing Orchard CMS, MVC web apps, and email templates
- Created deployment-management tools using NAnt and XSLT to validate cloud server configuration
- Served as subject-matter expert in vendor-selection and contract-negotiation processes
- Coordinated technical strategy, architecture, and timeline with CIO and other team leads
- Introduced aspect-oriented programming to commonly-used base classes and exception-handling code
- Dramatically lowered cloud-computing costs by removing system bottlenecks in platform infrastructure
- Led cross-functional team in work sprints, Scrum ceremonies, and performance reviews
- Crafted exceptional libations to celebrate each successful release (Appletini, Bellini, Commodore...)

Mar 2010 -  
Mar 2012    **Solution Developer**, Avanade, Atlanta, GA (consulting)

- Architected legacy C++/MFC to WPF/MVVM conversion of multi-billion-dollar critical customer-facing app
- Led team of developers in prioritizing and building proof-of-concept applications for sales demonstrations
- Designed and built AJAX/jQuery libraries to capture cutting-edge user analytics on websites
- Improved maintainability in legacy code by introducing design patterns and new language features
- Worked with subject matter and UX experts to design intuitive, legally-compliant healthcare frameworks

Aug 2009 - Feb 2010	<b>Senior IT Developer</b> , The Home Depot, Atlanta, GA (contract) <ul style="list-style-type: none"> <li>Implemented SOA platform and mobile apps for inventory-management, merchandising, and point-of-sale</li> <li>Performed code reviews and performance testing for other teams, offshore and contract workers</li> <li>Regularly worked full shifts in stores to gain users' ongoing insights and feedback on deployed applications</li> </ul>	
July 2006 - July 2009	<b>Solution Developer</b> , Avanade, Atlanta, GA (consulting) <ul style="list-style-type: none"> <li>Managed a multi-site team of developers and testers in implementing new features and fixes</li> <li>Owned product roadmap, balancing public-sector, private-sector and employer's interests</li> <li>Designed, built, and maintained mission-critical data platform for mobile/wearable devices</li> <li>Wrote hardware abstraction layer code for streamlining development on devices with varying capabilities</li> <li>Designed customizable, automated unit-test system for mobile applications</li> <li>Served on multiple long-term full-lifecycle engagements with challenging clients</li> <li>Performance-tested and optimized SOA-based web service platform and underlying subsystems</li> </ul>	
May 2005 - July 2006	<b>Programmer-Analyst</b> , Hewitt Associates (now Aon Hewitt), Atlanta, GA <ul style="list-style-type: none"> <li>Maintained confidential financial records for 120,000 plan participants across 10 client companies</li> <li>Provided analysis of complex health &amp; welfare system defects from legal and technical standpoints</li> <li>Collaborated with and trained overseas associates on team practices and 401(k) plan management</li> </ul>	
Aug 2004 - May 2005	<b>Business System Analyst and Tech Lead</b> , Acuity Brands Lighting, Atlanta, GA <ul style="list-style-type: none"> <li>Developed ASP.NET tool to facilitate the organization's custom SDLC and categorize human capital</li> <li>Owned the product roadmap, negotiating contents to build stakeholder buy-in from customer organizations</li> <li>Analyzed current systems to determine business value and client expectations for replacement</li> </ul>	
June 2004 - Aug 2004	<b>Systems Development Intern</b> , BellSouth (now AT&T), Baton Rouge, LA <ul style="list-style-type: none"> <li>Built shipment-tracking intranet application deployed across the southeast</li> <li>Automated logistics operations, adding basic AI components like order-prediction and anomaly-detection</li> </ul>	
May 2003 - June 2004	<b>E-Business Analyst Intern</b> , Gulf States Paper Corporation (now The Westervelt Company), Tuscaloosa, AL <ul style="list-style-type: none"> <li>Saved a projected \$2.5 million / yr. with a computer-vision-driven downtime-recording system</li> <li>Further details available upon request</li> </ul>	
Jan 2002 - May 2003	<b>HelpDesk Consultant</b> , Seebeck Computer Center, University of Alabama, Tuscaloosa, AL <ul style="list-style-type: none"> <li>Details available upon request</li> </ul>	
<b>TECHNICAL EXPERIENCE</b>	<b>Languages:</b> Python, R, C#, C/C++, ASP.NET MVC, .NET Framework / Core / Compact Framework, F#, Java, VB6, ColdFusion, SQL, Matlab, PHP, HTML, Javascript, CSS, COBOL, JCL, SAS  <b>Tools:</b> D3, TensorFlow, jQuery, Amazon SQS/EC2/S3, MSMQ, Gatsby, Ant/NAnt, Oracle, MS SQL Server, MS SQL Mobile, DB2, MS Visual Studio, Eclipse, Apache, Tomcat, Maven, Axis/Axis2, MS Office Automation	
<b>OTHER SKILLS</b>	Leadership experience, strong writing and communication skills, statistical analysis, neural networks, support vector machines, linear and logistic regression, classification and clustering systems, recommender systems, natural-language processing, principal-component analysis, data acquisition, data cleaning, and visualization.	
<b>HONORS, ACTIVITIES</b>	<b>National Merit Scholar</b> <b>JL Bedsole Scholar</b> <b>Randall Research Scholar</b> (née Computer-Based Honors) <b>Avid rock climber, backpacker, blues dancer</b>	<b>Dean's List</b> (3 years) <b>National Dean's List</b> (2 years) <b>Jiu-jitsu blue belt, muay thai orange shirt</b> <b>Bacon Number of 3</b> (June 2020 average: 3.182)