

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

Certifications: MS Certified Solution Developer, MS Certified Enterprise Architect, K2 Solutions Professional

Ongoing education: 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 Software Delivery**, Wineshipping – Napa, CA

- Nov 2021 –
Sep 2022
- Managed headcount, culture, and architecture in fully-remote organization (across US, India, Ukraine)
 - Obsessed with customer experience, driving user-journey improvements with designers and frontend devs
 - Designed integration of acquired/legacy data platforms via Azure Data Lake for low-code PowerBI reporting
 - Refactored monolith to event-driven cloud microservices via Azure Service Bus for observability/extensibility
 - Replaced polling background jobs with webhooks for improved performance at lower operational cost

Apr 2019 -
Nov 2021

Director of Technology, Spire Digital – Denver, CO

- Grew a new account to be the company's largest client in both team size and revenue
- Managed delivery-team organizational structure, practices, and headcount
- Responsible for realizing Gross Margin and Client Satisfaction metrics
- Led architecture and development on enterprise data platform
- Assisted startup in maturing and scaling processes to complete acquisition by multinational company
- Promoted developer education through lunch-and-learns and mini-hackathons

Feb 2014 -
Mar 2019

Technical Team Lead, SunTrust Banks (now Truist) – Atlanta, GA

- Shortened development timelines by refactoring myriad legacy apps into reusable SOA components
- 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 development practices
- Influenced department culture of craftsmanship, by specializing in code review and developer learning

Mar 2012 –
Jan 2014

Team Lead and Company Bartender, Kabbage – Atlanta, GA

- Designed and trained machine-learning-powered credit underwriting engine central to company's product
- Built scalable cloud-based data-collection platform targeting 15+ third-party APIs
- Designed event-driven data pipelines based on AWS queueing to populate data warehouses
- Created tools to automate AWS infrastructure management via responsive-design mobile site
- Implemented responsive design for email templates and public-facing Orchard CMS and MVC webapps
- 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 - **Solution Developer**, Avanade – Atlanta, GA (consulting)
- Mar 2012
- 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
 - Captured cutting-edge user analytics on websites via custom JavaScript libraries
 - Improved maintainability in legacy code by introducing design patterns and new language features
 - Worked with subject matter and UX experts to design intuitive, compliant healthcare frameworks
- Aug 2009 - **Senior IT Developer**, The Home Depot – Atlanta, GA (contract)
- Feb 2010
- Implemented SOA platform and mobile apps for inventory-management, merchandising, and point-of-sale
 - Performed code reviews and performance testing for other teams, offshore and contract workers
 - Regularly worked full shifts in stores to gain users' ongoing insights and feedback on deployed applications
- July 2006 - **Solution Developer**, Avanade – Atlanta, GA (consulting)
- July 2009
- Managed a multi-site team of developers and testers in implementing new features and fixes
 - Owned product roadmap, balancing public-sector, private-sector and employer's interests
 - Designed, built, and maintained mission-critical data platform for mobile/wearable devices
 - Wrote hardware abstraction layer code for streamlining development on devices with varying capabilities
 - Designed customizable, automated unit-test system for mobile applications
 - Served on multiple long-term full-lifecycle engagements with challenging clients
 - Performance-tested and optimized SOA-based web service platform and underlying subsystems
- May 2005 - **Programmer-Analyst**, Hewitt Associates (now Aon Hewitt) – Atlanta, GA
- July 2006
- Maintained confidential financial records for 120,000 plan participants across 10 client companies
 - Provided analysis of complex health & welfare system defects from legal and technical standpoints
 - Collaborated with and trained overseas associates on team practices and 401(k) plan management
- Aug 2004 - **Business System Analyst and Tech Lead**, Acuity Brands Lighting – Atlanta, GA
- May 2005
- Developed ASP.NET tool to facilitate client's custom SDLC and human capital management
 - Owned the product roadmap, negotiating contents to build stakeholder buy-in from customer organizations
 - Analyzed current systems to determine business value and client expectations for replacement
- June 2004 - **Systems Development Intern**, BellSouth (now AT&T) – Baton Rouge, LA
- Aug 2004
- Built shipment-tracking intranet application deployed across the southeast
 - Automated logistics operations, adding basic AI components like order-prediction and anomaly-detection
- May 2003 - **E-Business Analyst Intern**, Gulf States Paper Corporation (now The Westervelt Company) – Tuscaloosa, AL
- June 2004
- Saved a projected \$2.5 million / yr. with a computer-vision-driven downtime-recording system
- Jan 2002 - **HelpDesk Consultant**, Seebeck Computer Center, University of Alabama – Tuscaloosa, AL
- May 2003
- Supported networks and computer labs for 20,000+ students
 - Supported desktop applications and networks for 5,000+ faculty and staff
 - Created Joe Namath's student email account when he came back to finish his degree

TECHNICAL EXPERIENCE **Languages:** 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

Tools: D3, TensorFlow, jQuery, Amazon SQS/EC2/S3, MSMQ, Ant/NAnt, Oracle, MS SQL Server, MS SQL Mobile 2008, DB2, MS Visual Studio, Eclipse, Apache, Tomcat, Maven, Axis/Axis2

OTHER SKILLS Leadership experience, strong writing and communication skills, experience in statistical analysis, neural networks, support vector machines, linear and logistic regression, K-means clustering, recommender systems, principal-component analysis, data acquisition, data cleaning, and visualization.

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| HONORS, ACTIVITIES | National Merit Scholar JL Bedsole Scholar Randall Research Scholar (née Computer-Based Honors) Avid rock climber, backpacker, blues dancer | Dean's List (3 years) National Dean's List (2 years) Jiu-jitsu blue belt, muay thai orange shirt Bacon Number of 3 (March 2023 average: 3.095) |
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