

Contact

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(LinkedIn)

Top Skills

Large Language Models (LLM)

Artificial Intelligence (AI)

Business Intelligence (BI)

Languages

English

Certifications

AWS Certified Data Analytics –
Specialty

AWS Certified Machine Learning –
Specialty

GraphQL Essential Training

AWS (Amazon) Certified Solutions
Architect

Clarke Bishop

AI & Data Architect and Engineer ♦ Cloud Consultant ♦ Advanced
Analytics Architect ♦ Big Data Engineer ♦ Problem Solver
Roswell, Georgia, United States

Summary

Analytics is the process of creating business value from data.

By now, most companies know they must mine data to understand and serve their customers, reduce their operating cost and increase their market cap. The idea is simple, but the technology and execution are hard.

Data Collection ► Data Engineering ► Analytics ► Business Impact

Too many organizations try to skip over or rush past data engineering. Analytics insights end up wrong because the data quality was insufficient.

I design and fix problems with data pipelines—especially for analytics use cases.

► **ARCHITECTURE:** Amazon and other cloud providers supply an abundance of powerful data processing and analysis solutions. The challenge is finding the right mix of technology to efficiently solve a specific business problem.

► **DATA ENGINEERING:** Analysts and Data Scientists are comfortable using SQL and other common techniques to query data and answer business questions. Internet of Things (IoT) devices and other processes create huge volumes of big data, and specialized approaches must be used to clean and process the data for analysis. Data engineering and writing code with tools like Spark is commonly required.

► **AGILE DEVELOPMENT:** It always takes a team to get business results. It's essential to recruit, mentor, and lead teams in agile development to quickly get things done.

With a Master's in Electrical Engineering, an MBA, and many years experience building data pipelines and systems, I fix the analytics and data dilemma.

Join me on our mission to accelerate the adoption of advanced analytics. Connect on LinkedIn or contact me.

✉ Email: clarke@clarkebishop.com

SKILLS & CAPABILITIES: Innovation, Digital Transformation, Strategy, Cloud, Artificial Intelligence, Machine Learning, Internet of Things (IoT), Disruptive Technology, Software Engineering & Architecture, Big Data, Analytics, Spark, data warehouse, Atlanta, Georgia.

Experience

Resultant Systems

Technical Manager, Solutions Architect, & Engineer

July 1999 - Present (26 years 4 months)

Greater Atlanta Area

Architected solutions, developed software, managed teams, and implemented marketing automation to solve business problems with full stack web applications.

- Architected and developed highly available, cloud-based client and server software used by 23 companies to synchronize shopping carts via the HubSpot API.
- Architected and engineered a web-based linen management app used by 700,000 hospital employees. The app included embedded Linux, an embedded web server, a client application written in ActionScript, and a .NET backend.
- Developed a LinkedIn API and screen scraping app with Node, Mongo, Require.js, Cheerio, and Excel.js for managing and exporting LinkedIn leads.
- Architected and managed development of a mobile teacher assessment app used for school turnarounds.
- Coded a scored quiz web app with Node, Express, and Mongo to support lead generation. The app also integrated with HubSpot via their API.
- Invented client and server software used to manage identity and synchronize CRM and e-commerce systems via the Infusionsoft API.

- Developed a Flash/ActionScript eLearning title and developed the web-based companion app used by 1,200 companies.
- Architected and built a Flex software hiring and recruiting app that supported the Topgrading process.
- Developed a multilingual e-Learning app that clarified and communicated CARE's People Management Principles to their employees in 87 countries.
- Converted Flash presentations to HTML5/JavaScript.
- Designed custom HubSpot websites using HTML, JavaScript, CSS, and Less.
- Coded an online quote application to automate customer acquisition.
- Developed a custom shopping cart to support special engraving requirements.
- Customized a web-based content management system using the Splash framework.

Pluralsight

Pluralsight Course Author - Data Analytics & Python

October 2019 - August 2025 (5 years 11 months)

Remote

Created two courses:

- Analyzing Data on AWS: An intermediate/advanced course on Amazon's analytics solutions and technologies.
- Exploring Web Scraping with Python: A beginner-level course to get Python developers and data scientist started on web scraping.

Vertical Relevance

Principal Cloud Consultant

August 2021 - July 2025 (4 years)

New York City Metropolitan Area

Artificial Intelligence, Datalakes, Databases, and Analytics for companies in the Financial Services industry.

AGCO Corporation

Advanced Analytics Architect

October 2020 - September 2021 (1 year)

Atlanta Metropolitan Area

Served as Enterprise Architect for Agco's Analytics Center of Excellence. Encouraged cloud analytics best practices and architected advanced data analytics solutions for Agco's lines of business.

Client Command
Lead Big Data Engineer
January 2019 - April 2020 (1 year 4 months)
Greater Atlanta Area

Global Payments Inc.
Senior Full Stack Engineer and Architect
October 2018 - January 2019 (4 months)
Greater Atlanta Area

Helped architect and deliver changes to the company's Merchant Portal app.

Innovations Domain, LLC. - The Power of the Problem (SM)
Problem Architect
December 2016 - January 2019 (2 years 2 months)
Greater Atlanta Area

We're in the midst of a significant transformation as our organizations are having to deal with:

#1 = Explosion of Innovation = Speed + Frequency + Convergence

#2 = Digital Disruption = Advanced Analytics + Artificial Intelligence (AI) + Blockchain + Cloud Computing + Internet of Things (IoT) + Mobile + ...

#3 = Platform + Subscription Economy

And so much more - all at the same time.

So, what's broken?

The more disruptive the innovation = The more complex the adoption.

As a Problem Incubator SM, Innovations Domain is designed for and dedicated to fixing new strategic business problems or existing problems in a new and unique way through the Acceleration + Application + Adoption of Innovation.

As Fixers - we prototype one strategic business problem at a time - with full operational responsibility and financial accountability.

For an overview of some the problems that we are currently incubating - please visit <https://innovationsdomain.com>.

The Weather Channel

Senior Architect

May 2018 - September 2018 (5 months)

Greater Atlanta Area

It takes a lot of data to serve your customers and deliver a great experience. And all that data has to go somewhere.

That's why I'm architecting an analytics pipeline for Local Now's streaming video app. We're using all the latest Amazon AWS tools and tricks—Firehose, Redshift, Glue, Athena, and Lambda.

Ultimate Software

Senior Software Engineer

January 2017 - October 2017 (10 months)

Marietta, GA

Developed Angular, Node.js, and Java code for the company's data extraction and migration tool.

- Developed frontend apps with Angular – 1 & 2, HTML, and CSS.
- Coded back end RESTful microservices with Java and Node.js.
- Implemented the CQRS pattern to architect event-based file management and parsing services.
- Employed agile development methods including Kanban, Cloud Foundry, iterative development, and continuous delivery.

Learn.net

President

January 1991 - July 1999 (8 years 7 months)

Greater Atlanta Area

- Created the vision and was Lead Architect to build an enterprise-wide, web-based learning management application used by over 100,000 users. Customers include Allstate Insurance, BellSouth, John Hancock.
- Sold and managed the relationships with the company's key accounts.
- Managed the full life-cycle development through vision, modeling, development, testing, deployment, and support.
- Managed Java and HTML developers, Artists, QA testers, and writers. The application was object-oriented, and was implemented with J2EE.
- Wrote a customized browser client using Internet Explorer and Visual Basic.

- Wrote Visual Basic software for an automated in-store audio system. The software managed music and ad insertion delivered via satellite to over 50 retail stores.
- Managed the development of over 20 web-based and computer-based learning software titles.
- Managed a technical support desk, provided technical consulting, and managed server hosting services.

Convergent Media Systems (Formerly known as VideoStar)

Director of Program Management

January 1987 - January 1991 (4 years 1 month)

- Served as Chief Technology Officer including responsibility for systems engineering, research & development, program management, computer system development, and materials management.
- Created the vision and managed the development of a Project Tracking System using a DEC Vax and the All-In-One software.
- Built and managed a team of 20 employees and 50 contractors to design and install satellite communication systems.
- Selected, procured, and managed the installation of video and data communications equipment at over 2,500 locations.
- Designed integrated audio/video systems including television monitors, VCR's, switchers, modulators, and broadband video distribution systems.
- Analyzed and selected video encryption and addressing technologies.

Scientific-Atlanta

Engineering Manager and Senior Engineer

September 1981 - January 1987 (5 years 5 months)

Greater Atlanta Area

- Managed a department of 4 engineers and 2 technicians in the engineering development and production of video communication systems, video receivers and related products.
- Managed the development of embedded receiver control software.
- Researched applications of digital signal processing to television signals including video filtering, video enhancement, and compressed digital video.
- Designed and implemented systems and low-noise microwave components for satellite data and video equipment including a low-cost satellite data system, a microwave multiplier, a BPSK modulator, a dielectric stabilized oscillator, microwave filters, amplifiers, and a phase locked loop oscillator.
- Wrote a software tool to design communication systems.

-- Wrote a technical paper for the Scientific-Atlanta communications symposium.

IBM

Senior Associate Engineer

March 1977 - September 1981 (4 years 7 months)

- Wrote assembly language microcontroller software to control a power supply.
- Directed the activities of a group of 8 technicians.
- Scheduled projects and allocated project resources.
- Designed circuits and electronic packaging for new printer and typewriter products.
- Developed analog printer control electronics, digital circuits, microprocessors circuits, D/A converters, and analog motor drivers.
- Published four papers in the IBM Technical Journal.

Education

Georgia State University - J. Mack Robinson College of Business
Master of Business Administration (M.B.A.), Concentration in Management, Finance, & Investments · (1982 - 1985)

University of Kentucky

Master's Degree, Electrical Engineering · (1977 - 1981)

Auburn University

Bachelor's Degree, Electrical Engineering · (1973 - 1977)