JON STOCKSDALE

CONTACT:

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- This resume and more available interactively at http://rafikisystems.com/stocksdale

VISION/SUMMARY:

- Compassionate, visionary, creative, hard-working, entrepreneurial, and always-learning.
- Data architect/engineer, software developer, educator, psychologist, researcher. Best at big picture thinking, but willing to do literally any level of task to make a project succeed.
- Passions: Designing and crafting software, especially structuring data for improved function and decision-making; Research and analysis, especially identifying key questions; Encouraging learners to think deeper and better.

WORK HISTORY:

U.S. XPRESS ENTERPRISES

Chattanooga, TN - Shipping company with over 7000 trucks and over 9000 drivers

Data Architect / Data Engineer

September 2019 - present

- Architected, engineered, built and improved numerous complete data solutions for operations and analytics and integrations with various third-party data sources.
- Saved over a million empty miles per month, improved driver experience and turnover, and increased truck asset utility, sped up and improved numerous processes based on business user needs.
- Core work:
    - Design of effective data structures
    - creation of new Stored Procedures
    - performance improvement of old Stored Procedures
    - optimization and reorganizing of confusing, integrity-challenged, legacy data in dozens of databases hosted on numerous servers.
    - Design, implementation, and consumption of numerous APIs
- Management of and Coordination with other developers: interviewing, onboarding and managing SQL, BizTalk, Mulesoft, and Informatica developers. Coordinating development with .NET, AWS, PowerBI, and other data consumers and producers.

RAFIKI SYSTEMS

Chattanooga, TN – School software integrated with PowerSchool, Oracle, and SQL Server

President, Founder

Jan 2016 – present

- Envisioned a novel approach to school software by wrapping a powerful graph-like, entity-relationship model around challenging legacy data, which provided rapid relationship-based secure access and a platform for developing powerful new tools.
- Solutioned in MS SQL Server connected to Oracle, MySQL, and Postgres with.NET/C# APIs; and .NET/KendoUI/Angular Dart Frontend.

- # SODDY DAISY HIGH SCHOOL

  Soddy Daisy, TN
  ## Special Needs Math Teacher

  Jan 2019 – Aug 2019
  - Enabled first-time success for struggling mathematics learners.

- # RIFT VALLEY ACADEMY

  Kijabe, Kenya (East Africa)
  120 year highly respected international school of 500 students from all over the world, heading to top universities all over the world.
  ## Multiple Roles

  Feb 1990 – Dec 2018
  Sustained and improved the health and effectiveness of this 120 year-old, top-tier, American-curriculum, international (30-passport-country), 500-student school:
  Administration/Management:
  - Guidance Counselor
  - Academic Support Coordinator
  - Department Head
  - Systems Administrator
  - Technology Coordinator
  - Other "Get Stuff Done" roles

  Teacher:
  - Computer Science
  - Graphic and Web Design
  - Psychology
  - Economics/Current World Issues
  - Mathematics

  Software Development and Administration:
  - Built ground-up school management solution which ran the school from 1994 to 2018.
  - Enhanced solution became RafikiSystems.
  - Technologies included SQL, C#/ASP.NET, VB, VBA, Dart, HTML, CSS, Javascript, SQL Server, Oracle, MS Access, Excel, Moodle, PowerSchool, Navision, Naviance, Windows Networking, Active Directory, Adobe suite, and more.
  - Connected rural school to email and the internet in 1995 before most people in the US were using either.
  - Transformed education with One-to-One computing (all students have a computer): researched, custom-designed, implemented (including networking, security, and software), and managed program for 400 students from early 2000s to 2018– long before most US schools implemented one-to-one solutions.

- # COMPUTER HORIZONS

  Chattanooga, TN   Consulting Firm with numerous large business clients
  ## Consultant/Software Developer

  1997 – 1998
  - Rapidly designed and built an effective, custom accounting/claim management system for Blue Cross Blue Shield of Tennessee with MS Access and SQL Server databases - faster/cheaper than corporate IT.

- ## GEORGIA DUCK AND CORDAGE MILL

  Atlanta, GA Large Conveyor Belt Manufacturer

  Consultant/Software Developer

  1991 – 1994
    - Created ground-up transformative database solutions for sales and manufacturing of complex conveyor sytems. Extended MFGPRO software using Visual Basic, Progress, Paradox, and SQL.

- ## INSTRUCTIONAL COMPUTER EQUIPMENT

  Indianapolis, IN Progressive Educational Software for Students with Learning Disabilities

  Vice President of Software Development

  1983 – 1988
    - Managed the research, design, and development of educational software for students with learning challenges, utilizing cutting edge color graphics, sound, voice and touch screens, long before such technology was commonplace.
    - Designed and built a powerful graphics editor selected by Herron School of Art at Indiana University for instruction, and used inhouse for educational software – years before Photoshop.
    - Crafted a no-code/low-code interactive curriculum development tool for teachers to build computer-based learning – similar to, but long before HTML and HyperCard.

- ## TAYLOR UNIVERSITY

  Upland, IN

  Developer - Student Management System

- ## INDIANA VOCATIONAL AND TECHNICAL COLLEGE

  Marion, IN

  Instructor – Introduction to Computer Science

SKILLS:

DATA ARCHITECT/ENGINEER
- Adept designer of Relational Databases, especially creative data structuring for improved applications, analysis, and decision-making.
- Envisioned and created "Graph" Database linked to traditional SQL Relational Databases with relationship patterned security.
- Fluent in a wide range of tools, software, and languages, especially SQL, and especially Microsoft tools
- Primary interviewer for SQL Architect/Developer hiring for large data driven company.
- Communicate with consumers and users of data to design solutions that fit. (See vision at https://rafikisystems.com/stocksdale/data.html)

SOFTWARE DEVELOPER
- Programming, design and development with numerous languages and technologies
- Comfortable with both front and backend development based on solid understanding of user informational and process needs
- Most Comfortable Technologies: SQL, T-SQL, MS SQL Server, Oracle, NOSQL, Elixir, C#, Dart, R, Python, Julia, HTML, CSS, JavaScript, Angular, React, PowerBI, Agile, SSMS, BizTalk, MuleSoft, Informatica, GIT, GITHUB

DATA ANALYSIS
- Energized by statistical analysis, especially identifying essential research questions.
- Comfortable with wide range of tools, software, and languages; extremely fluent in SQL.

EDUCATOR/CURRICULUM DEVELOPER

- Primary, Secondary, and Tertiary teaching, Academic Support (K-12): Tutoring, Mentoring, Advising, Guidance Counseling.
- Comprehensive Curriculum Development for new courses and departments: Communications and Information Technology, Current World Issues, and Psychology.
- Elixir functional programming mentoring for under-represented populations

TECHNOLOGY IMPLEMENTER

- Deployed various technologies for budget-conscious schools and businesses; envisioned, deployed and managed "one-to-one" tablet computer implementation

ENTREPRENEUR/INNOVATOR

- Started or contributed to start of various businesses, ministries, and departments.
- encouraging new ways of doing and thinking in established organizations.

EDUCATION:

- ### Georgia State University
  Atlanta, GA
  ### Master of Science in Educational Psychology
  Special focus on Educational Technology and Peer Tutoring

- ### Taylor University
  Upland, IN
  ### Bachelor of Arts in Mathematics and Psychology
  with Minor in Computer Science and Minor in Political Science

LIFE EXPERIENCES:

- 30 YEARS WORKING AND LIVING IN AFRICA
- PASSIONATE ABOUT CLIMATE CHANGE and SOCIAL/ECONOMIC EQUITY
- VOLUNTEER:
  - TEACHER/TUTOR (PROGRAMMING, MATH, ESL, ROBOTICS, BIBLE)
  - RED BANK FOOD PANTRY BOARD
  - CITY OF CHATTANOOGA CLIMATE ACTION PLAN PROJECT TEAM LEAD
  - BRIDGE REFUGEE SERVICES
  - HABITAT FOR HUMANITY
- SAILING, BIKING, PHOTOGRAPHY, HIKING, TRAVEL
- GENERAL CONTRACTOR FOR PERSONAL HOME IN KENYA
- DROPPED ENERGY USAGE ON RED BANK 1959 RANCH HOME BY >75%