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Robert A. Downing, II

Objective

Business professional and Entrepreneur with significant Engineering, Product Marketing, Management and Business expertise seeking to share accumulated experience with next-generation leaders.

Summary of skills

Educational

- Big Data
    - o Big Data [& the Hadoop] Ecosystem
    - o Data Mining & Machine Intelligence
    - o Internet of Things
- Database
    - o Data Modeling and Implementation Techniques
    - o Introduction to Relational Database
- Networking
    - o Cryptography & Information Security
    - o Network Analysis & Troubleshooting
- Operating Systems
    - o Operating Systems [General structure: Linux/Unix/Windows]
    - o Linux Systems Programming
- Programming
    - o Advanced Programming for a UNIX/Linux Environment
    - o UNIX/Linux Network Programming

Entrepreneurial

Founded text analysis startup: authored patents for core IP, currently active;

- A Method & System for Determining & Reflecting the Sentiment & Impact Adhering to a Brand or Reputation on the World Wide Web [filed]
- A Method & System for Synthesizing Large Amounts of Structured & Unstructured Data with the Goal of Yielding Predictive & Prescriptive Analytics in Support of Intelligent Business Decision-Making [filed]
- A Method and System for Accepting from External Sources a Designated Characteristic of a Location within the Internet and Deriving from said Characteristic a Measure of Importance for said Location with the Goal of Yielding a Discreet Quantity that can therefore be Combined with Other Characteristics with the Aim of Establishing Predictive and Prescriptive Analytics in Support of Intelligent Business Decision-Making [filed]
- A Method and System Utilizing a Hierarchical Structure of Lexicons to Establish Vernacular, Dialect and Slang in the Analysis of Textual Data in Order to Set Context to a User of said

System, which Vernacular, Dialect and Slang will Evolve as a Function of Usage Over Time, Providing for a Self-learning Method of Establishing a Continuity of Context in said Textual Analysis

- A Method and System for Synthesizing Large Amounts of Structured and Unstructured Data with the Goal of Yielding a Measure or Measures of Veracity or Truthfulness Adhering to Single or Multiple Atoms of Data
- A Method & System for Determining & Reflecting the Various Sentiment & Impacts Adhering to a Word or Words: According to the Inherent Sentiment of said Word or Words as Modified by Projected Impacts Accruing from Dynamically-selectable Source or Sources of Publication of said Word or Words in Determining Effectiveness & Desirability of Advertising and/or Marketing Content
- A Method & System for Determining & Reflecting the Return on Investment Adhering to a Word or Words said Word or Words in Being Used for Advertising and/or Marketing Content

Co-founder Utility Computing startup.

Technical

- Application of Natural Language Processing
- Application of data mining
- Relational database design and management
- Networking in both legacy and Internet Protocol protocols
- Custom programming in various languages
- Operating systems from mainframe to mobile devices

Publications

Author: Frame Relay + MPLS; Frame Relay Forum for MPLS World
A discussion of the etymologies of Frame Relay and MPLS, with reference to the integration of both mechanisms of transport for next generation networks.
Author: A comparison of basic Frame Relay and IP VPN End-User Security; Frame Relay
Forum for Auerbach Management Series
A discussion of Virtual Private Networking, from the perspectives of Frame Relay and MPLS as two similar transport technologies, each having the ability to provide security separate and distinct from that provided by the more recognized VPN approaches.

Employment

2014 – Present Olivet University: Olivet Institute of Technology

Instructor

- IT330 - Introduction to Relational Databases
- IT500 - Operating Systems
- NS500 – Networking
- DS500 – Big Data Ecosystem
- IT600 – Cryptography & Information Security
- ITEC500 – Linux Internals
- ITEC230 – [Online offering] Operating Systems
- ITNS999 – IoT using the Arduino platform [in development]

2015 – 2016 – Northwestern Polytechnic University

Adjunct Faculty

- *CS457 – Data Modeling and Implementation Techniques*

- *CS510 – Advanced UNIX/Linux Programming*
- *CS515 - UNIX/Linux Network Programming*
- *CS550 – Data Mining and Business Intelligence*
- *CS575 - Network Analysis and Testing*

2011 - Present Trendicy Company Text Analytics Startup

Chief Executive Officer

Chief Technology Officer

2009 – 2010 PalazzoTech Social Networking Startup

Chief Technology Officer

Prior

- Blade Network Technologies - Product Manager – Software Programs
- IP Infusion - Senior Product Manager
- Larscom - Senior Product Marketing Manager
- 3Com – Marketing Engineer, Business Development Manager
- Netsoft – Systems Engineer, System Programmer
- IBM – Product Support Representative, Systems Engineer, Regional Technical Resource