JOHN M. DENNIS

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DATA & AI SPECIALIST

Skilled and data-driven professional with **over five years** of relevant industry experience in the fields of **Data Science, Data Analytics, Data Engineering, Prompt Engineering and AI**. Thrives in environments where all employees are encouraged to be leaders, and data is valued as a core business enabler. Proven track record of teaching and advocating adoption of new technologies and tools within organizations and academia.

PROFESSIONAL EXPERIENCE

CHEGG, Remote Home Office, Novi, MI

Technical Curriculum Writer & Subject Matter Expert   **June 2020 – Present**

- Collaborate closely with instructional designers and technical editors to design and implement comprehensive and innovative student-facing content across diverse programs such as Data Science, Data Analytics, Data Engineering, Prompt Engineering, Software Engineering, and Artificial Intelligence. Ensure educational materials are tailored to various learning levels and industry standards, enriching students' learning journeys.
- Design and develop customized AI-powered chatbot activities aimed at enhancing student engagement and facilitating self-guided learning experiences. This initiative enables students to actively apply theoretical concepts in realistic scenarios, bridging gaps between knowledge acquisition and practical application.
- Create a wide range of educational assets, from in-depth written lesson content and interactive student activities to graded assessments, engaging instructional videos, and insightful infographics. These resources are designed to accommodate different learning styles and help solidify students' understanding of complex topics.
- Play a key role in the development of automated assessments for Python, SQL, and JavaScript, utilizing third-party tools to accurately gauge students' proficiency and comprehension. These automated tools provide immediate feedback, allowing for timely interventions and targeted support for learners.
- Actively troubleshoot and resolve technical issues reported by students to swiftly address bugs in the curriculum. This hands-on involvement not only enhances the quality and reliability of educational content but also improves students' overall learning experiences.
- Heavily utilize the Microsoft 365 suite of products for collaborating with the team, including SharePoint, Outlook, Excel, Word, and PowerPoint.

INDEPENDENT CONSULTING SERVICES, Remote Home Office, Novi, MI

Data & AI Consulting Services   **Oct. 2019 – June 2020**

- Created a Python-based web scraping tool for UNC Chapel Hill, aiding scientific researchers in identifying relevant academic papers for research initiatives.
- Offered technical consulting to a University of Michigan-affiliated startup, advising on the use of descriptive and predictive analytics to identify future business opportunities for research grants.

FORD MOTOR COMPANY, Dearborn, MI

Emerging Technology & Development Tools Specialist   **Sept. 2016 – Dec. 2019**

- Managed external research on emerging technologies and fostered innovation in IT at Ford.
- Contributed to Ford's AI and Cognitive Computing strategy and education sessions, offering insights on new technologies. Collaborated with business teams to evaluate Chatbot technologies for Help Desk operations.
- Led a Strategic Research Services team of three, delivering technical insights on emerging technologies to guide Ford's research focus for maximum value.
- Coordinated interactive tours for Emerging Technology & Innovation labs, including AI, IoT, and VR/AR.
- Participated in the GitHub governance model team, enhancing Ford's software development community.

IT Project Manager   **Jan. 2008 – Sept. 2016**

- Supported Ford's Legal Office by aligning business needs with emerging IT tools to drive global growth, innovation, and sustainability.
- Facilitated global adoption of a smartphone app for mobile access to corporate conduct policies and ethics guidelines.
- Replaced paper binders with an iPad app for board of directors' meetings, enhancing efficiency and accessibility.
- Developed a cost recovery model for the eBilling system, achieving $250,000 in annual savings.
- Implemented new systems for eDiscovery, matter management, and due diligence.

GREAT LAKES FUTURES, LLC., Remote Home Office, Novi, MI
Chief Software Engineer & Trading System Developer   **April 2008 – March 2013**

- Managing Partner and Lead Developer of Automated Trading Systems for a Commodity Futures Trading Company.
- Developed and implemented proprietary automated trading systems.
- Traded and managed commodity futures accounts for private investors.
- Enhanced trading system performance using genetic algorithms and neural networks.
- Validated trading system performance with Monte Carlo simulations and statistical methods before live trading.

TEACHING EXPERIENCE

SCHOOLCRAFT COLLEGE, Livonia, MI
Computer Science Instructor (Evenings), Adjunct Faculty
Prepared lessons and taught evening adult education classes on topics including Visual Basic and Excel programming, and Technical Analysis of the Financial Markets (stocks, options, and commodity futures markets).

UNIVERSITY OF MICHIGAN, Dearborn, MI
Computer Science Instructor (Evenings), Adjunct Faculty
Prepared lessons and taught evening undergraduate computer programming classes for the Department of Computer Science & Engineering.

EDUCATION

Master of Science (MS), Computer Science & Engineering, OAKLAND UNIVERSITY, Rochester, MI

Bachelor of Science (BS), Electrical Engineering, MICHIGAN STATE UNIVERSITY, East Lansing, MI

PROFESSIONAL CERTIFICATIONS & SKILLS

AWS Certified AI Practitioner: Professional certification issued by Credly
LinkedIn Learning Paths: Master AI & ML, ML Specialist, Advanced AI & ML, Data Scientist, Python Developer

Other skills I have experience with include:
ChatGPT, Gemini, Slack, Jira, Asana, Agile, Kanban, Microsoft 365, Jupyter, VS Code, pandas, NumPy, SciPy, Scikit-Learn, Tableau, PySpark, JavaScript, React, SQL, PostgreSQL, Loom

Professional Associations/Societies
AWS Michigan, Ann Arbor AI/ML, Ann Arbor/Detroit NLP, PyData Ann Arbor

Language Skills (varying proficiency)
Spanish, French, German, Portuguese