# JAMES DETERRA

## EDUCATOR AND IT PROFESSIONAL

### CONTACT

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### EDUCATION

**M.S. Computer Science**

**Bridgewater State University**

### MILITARY SERVICE

**United States Navy – 1991
Honorable Discharge**

### TECHNICAL SKILLS

**Machine Learning – Supervised, Unsupervised, Reinforcement Learning
Deep Learning - Neural Networks, CNNs, RNNs
Natural Language Processing – NLP
Computer Vision and Image Processing**

**Programming Languages
Python, Java, C#, JavaScript/TypeScript, Node.js**

**AI & Development Frameworks
TensorFlow, Keras, PyTorch, scikit-learn
React, Angular, MAUI**

**Database Systems
MS SQL Server, MYSQL, MongoDB**

## ACADEMIC EXPERIENCE
### Bristol Community College, 2021 - Present
- Bristol Community College's Adjunct Certification Program (2024)
- Developed practical, hands-on curriculum combining theoretical concepts with real-world applications
- Created and maintained course materials for both in-person and online delivery

## INDUSTRY EXPERIENCE
### Independent AI Solutions Consultant
- Designed and implemented AI-driven enterprise solutions, optimizing server environments to support machine learning and AI workloads.
- Created and deployed virtual AI infrastructure using VMware and Hyper-V to improve scalability and processing power for AI applications.
- Developed secure, AI-optimized remote access solutions, integrating VPNs to ensure safe data transfer for AI models and cloud computing.
- Led AI system consolidation and optimization projects to enhance processing efficiency, data management, and machine learning model deployment.
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### Director of Integration Services - Newfire Global Partners
- Managed enterprise-level server infrastructure
- Implemented CI/CD pipelines with containerized environments
- Oversaw cloud migration strategies and implementation
- Established server security protocols and monitoring systems

### Director of Technology - Brockton Hospital
- Managed data center operations with 100+ physical and virtual servers
- Designed and maintained Windows Server infrastructure including Active Directory
- Established backup and disaster recovery procedures
- Created server deployment and maintenance documentation

**Publications/Articles**

- **AI Detection Tools: What Actually Works**
- **Creating AI-Enhanced Assignments Without Losing Academic Integrity**
- **Quick AI Tools to Reduce Your Grading Time**
- **Setting Up Clear AI Guidelines in Your Syllabus**
- **Using AI to Create Differentiated Learning Materials**
- **AI for Student Engagement: Discussion Prompts and Activities**
- **Common AI Mistakes Students Make and How to Address Them**
- **AI Tools for Supporting ESL/International Students**
- **Using AI to Create Better Assessments**
- **AI as a Teaching Assistant: Best Practices**
- **Helping Students Use AI for Research Without Compromising Quality**
- **AI Accessibility Tools: Supporting Diverse Learning Needs**
- **AI-Powered Student Feedback: Templates and Techniques**
- **Creating AI-Proof Writing Assignments**
- **Using AI to Generate Practice Problems and Solutions**
- **AI Tools for Course Planning and Organization**
- **17 AI Tools Every College Student Should Know**
- **How to Write Better Papers Using AI (Without Cheating)**
- **Time Management Hacks Using AI**
- **AI Research Assistant Tricks: Beyond Basic Searches**
- **Presenting Like a Pro: AI Tools for Better Presentations**
- **Group Projects: Using AI to Be a Better Team Member**
- **Mastering Multiple Choice Tests Using AI Study Methods**
- **Using AI for Job and Internship Applications**

**AI Projects**

- **[College Faculty AI Portal](College Faculty AI Portal)**
- **[College Student AI Portal](College Student AI Portal)**
- **[High School Faculty AI Portal](High School Faculty AI Portal)**

**AI Presentations**

- **Ethics in AI: Navigating the New Frontier**
- **AI for Social Good: Addressing Global Challenges**
- **Generative AI: Beyond the Buzzword**
- **AI and Data Privacy: Securing the Digital Future**
- **AI in Education: Revolutionizing Teaching and Learning**
- **AI in Industry: From Theory to Real-World Applications**
- **AI for Developers: Tools, Frameworks, and Best Practices**
- **The Future of AI and Jobs: What Skills Will Students Need?**

**Note: The information, and full presentations, on the above can be seen in one or more of the AI intranet sites I developed above.**