www.linkedin.com/in/jamestruxon (LinkedIn)
www.soft-effect.com (Personal)

Top Skills

Integration

Machine Learning

Python (Programming Language)

Languages

English (Native or Bilingual)

Spanish (Professional Working)

Certifications

SQL Server Machine Learning Services: Python

Understanding the Impact of Deepfake Videos

Advanced NLP with Python for Machine Learning

Microsoft Azure: Controlling Cost

Serverless Architecture

Publications

Lifetimes for Rydberg States of Cs with n<45 in a Black-Body Radiation Field.

Time Resolved Current Waveform and Light Emission in a PDP

Semi-empirical Lifetimes for Rydberg States of 133 Cs I in a Black-Body Radiation Field

1-D Model of a Helium AC Discharge in PDP

An enhanced database of atomic data for numerical simulations of plasma discharges

James Truxon

Data and Development Operations Lead at Corning Inc.
Corning, New York, United States

Summary

Machine learning is the crossing point for the skills and interests that I've developed throughout my student and professional career: physics, mathematics, coding, philosophy, neurobiology, and process automation; I will be building and investigating the boundaries of this space until I retire, and beyond.

Like many powerful technologies, it has the capability of benefiting the world or breaking it. My goal is to be designing systems that are robust allies in a sea of massive data warehousing, unblinking eyes in the right place to keep people safe and processes optimized, and ethically sound methods of advancing the field.

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Experience

Corning Incorporated
1 year

Data and Development Operations Lead
May 2022 - Present (1 year)
Corning, New York, United States

Data and Development Operations Lead
May 2022 - Present (1 year)
Corning, New York, United States

Corning Museum of Glass
8 years 4 months

Manager, Development and Artificial Intelligence
November 2017 - May 2022 (4 years 7 months)
Corning, NY

Machine learning, business strategy, staff management, agile development

• Manages strategy and practical applications of machine learning for the organization

• Manages strategy, information architecture, and feature implementation for org-wide transitions, including SharePoint Online & Microsoft Teams

• Developed python-based real-time face detection application with integration against Google, Azure, and IBM Watson's image analysis APIs for sentiment inference
• Developed a NodeJs bot for MS Teams to create an IT Helpdesk point of presence within all teams across the organization
• Developed an Azure Cognitive Services bot for MS Teams that provides a conversational interface to our internal knowledgebase using natural language processing of free-form questions
• Developed python-based tag extraction & concept clustering script for document corpus analysis to support transition from legacy deep folder structures to shallow, metadata-supported SharePoint libraries
• Designed and implemented a CI/CD pipeline around git, Bitbucket, Jenkins
• Established a docker-based internal application framework, internal container registry, and automated container build workflows for CI/CD pipeline
• Designed and implemented a production Kubernetes cluster for hosting and serving container-based workloads, using the Rancher cluster orchestration platform
• Created .NET-based learning & development tracking portal, integrated with external LMS RESTful APIs and internal instructor-led course tracking
• All responsibilities associated with previous role, fully remote in 2020 with all direct reports

Lead Application Developer
February 2014 - November 2017 (3 years 10 months)
Corning, NY

Full stack development, IT strategy, management, devops
• Manages all internal application development & support
• Supervises IT software engineering staff, including talent development
• Established, and currently administers a formalized university internship program
• Maintains subject-matter expertise for all internally-managed data sources
• Serves as technical lead and integration expert for all significant staff-facing projects, managing project teams, establishing deliverables, setting timelines, creating and delivering communications, and creating support structures for staff self-governance
• Serves as chairperson to multiple cross-functional working groups

Soft Effect Technology Solutions
Owner, Consultant
August 2006 - February 2014 (7 years 7 months)
Avoca, NY

Entrepreneurial experience, information design, client relationships, user experience, client training

• Developed an marketed a suite of client-managed, modular web components including DHTML WYSIWYG content management, event management, news management, ecommerce, searchable knowledge base, and email marketing tools for SMB market

• Operated redundant dedicated Windows servers for hosting, email, and anti-spam services

• Maintained relationships with a client base ranging from small businesses to higher education and Fortune 500 companies

• Provided technological advocacy and consulting for local businesses and non-profit organizations

Lehman Alternative Community School
Science Teacher
September 2012 - June 2013 (10 months)

• Taught Physics (grades 10-11), Physical Science (grades 8-10), and Computer Science (grades 7-8).

• Primary faculty advisor to 36 students (grades 6-12) in guidance, commencement project support, and mentoring roles

Gateway Defender
DBA, Senior Developer
April 2004 - July 2007 (3 years 4 months)

Database administration, full stack development, email spam & virus scanning, remote work

• Served as development team leader for core product enhancements, new client services, and improved internal business processes

• Managed external software suppliers

• Developed and administered a SOAP-based API that offered clients back-end integration capabilities

• Sole level 3 tech support for a user base of over 100,000

• Provided 24/7 Monitoring and maintenance of high-availability SQL cluster operating at 10K transactions per minute

Avatar Syndicate, LLP
Co-Founder, Partner & Senior Software Engineer
August 1997 - April 2006 (8 years 9 months)

Entrepreneurial experience, full stack development, devops

• Built a successful custom software development business from startup to maturity, including new business development, strategic planning, human resource management, and annual budgeting
• Managed client relationships, created project strategy, managed budget allocations, created estimates for development and timeline projection
• Built custom applications and data management solutions for a diverse and extensive client base that included regional, national and global organizations

The University of Toledo
Graduate Research Assistant
1996 - 2001 (5 years)
Toledo, Ohio, United States

Computational physics, neural network development
• Participated in the Plasma Display Panel joint experimental and theoretical research group, assisted in the development of nanosecond-resolution numerical Boltzmann simulations of plasma discharge using multigrid techniques
• Developed an object-oriented Particle-In-Cell (PIC) simulation framework using Borland Delphi
• Developed applications for calculating electron scattering phase shifts and electron scattering cross-sections for a wide range of atomic species
• Assisted with analysis of Martian polar albedo measurements based on WFPC2 images from the Hubble telescope
• Taught undergraduate physics lab classes

Education

University of Toledo
Master of Science (MS), Physics · (1996 - 2012)

Alfred University
Secondary Education and Teaching · (2009 - 2010)

Corning Community College
Secondary Education and Teaching · (2009 - 2010)

University of Toledo
Bachelor of Science (BS), Physics · (1992 - 1997)