

Crystal Hollis

MACHINE LEARNING RESEARCHER

Summary

Experienced Interactive Media professional transitioning into AI and Data Science, with a strong foundation in Python, data analysis, and digital content management. Aiming to develop domain expertise in Machine Learning and its intersections with Media Archiving, Healthcare, GIS, and Public Health.

Education

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| 2023-2025 | <p>Dallas College Python Developer Certificate Dallas, TX GPA: 3.067 Relevant Coursework:</p> <ul style="list-style-type: none"> • Programming Logic and Design (A) • College Algebra (C) • Intro to Python Programming (B) • System Analysis and Design (A) • Intermediate Python Programming (A) • Elementary Statistical Methods (A) • Python Data Science Tools (In Progress) • Calculus II (In Progress) • Discrete Mathematics (In Progress) |
| 2014-2015 | <p>University of North Texas M.A. Interdisciplinary Studies Denton, TX Concentration in Interactive and Virtual, Digital Communication GPA: 3.8 Relevant Coursework:</p> <ul style="list-style-type: none"> • New Tech of Instruction (A) • Comp Graphics (A) • Electronic Info Services (B) • Integrated Communications (A) • Website Development (A) • Multimedia/Tech Apps (A) • Professional Internship (A) <p>Faculty Advisors: Demetria Ennis-Cole, Xin Wang, Neil Foote</p> |
| 2009-2013 | <p>University of North Texas B.A. Radio, Television, and Film Denton, TX Minor: Management GPA: 2.847 Relevant Coursework:</p> <ul style="list-style-type: none"> • Media Management (B) • Film and TV Analysis (B) • RTVF Production (B) • Leadership (B) • Advertising Management (B) • Content Development for Digital Media (A) |
| 2009-2012 | <p>University of North Texas Media Management Undergraduate Academic Certificate Denton, TX</p> |

Academic Interests

- Python Programming
- Data Science
- Artificial Intelligence and Machine Learning
- Digital Content Management and Curation
- Data Management and Wrangling
- Archival Preservation
- Computer Vision and Image Processing
- Geographic Information System (GIS)
- Healthcare
- Public Health
- Environmental, Health, Business, and Technology Ethics
- Social Justice
- Data Visualization
- Interactive Media

Certifications, Professional Development, and Professional Training

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| August 2024 | Google IT Automation with Python Certification Relevant Coursework: <ul style="list-style-type: none">• Crash Course on Python• Using Python to Interact with the Operating System• Introduction to Git and GitHub• Troubleshooting and Debugging Techniques• Configuration Management and the Cloud• Automating Real-World Tasks with Python |
| November 2023 | 2023 NSF-Funded Workshop Artificial Intelligence Awareness One-Day Workshop, Dallas College Richland Campus Workshop Organizers: <ul style="list-style-type: none">• Feng Chen, University of Texas at Dallas• Jin-Hee Cho, Virginia Polytechnic Institute and State University• Don Hyun Jeong, University of District of Columbia |
| February 2020 | Learning Path: Become a Successful Remote Worker LinkedIn Learning |
| August 2016 | Write Effective Web Content Ed2go / Denton Public Library |
| July 2016 | Intermediate WordPress Websites Ed2go / Denton Public Library |
| April 2016 | Using Social Media in Business Ed2go / Denton Public Library |
| | Creating WordPress Websites Ed2go / Denton Public Library |

Professional Experience

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| March 2020 - Present | Magna Media Arts LLC Managing Owner, Dallas, TX <ul style="list-style-type: none">• Business Management• Video Production and Livestreaming• Photography• Video Editing |
| March 2020 – November 2021 | Planet Depos Video Conferencing Technician, Remote <ul style="list-style-type: none">• Hosted remote legal depositions on Zoom• Troubleshooting technical issues• Screen Recordings |
| February 2018 - Present | Southern Methodist University Freelance Post-Production Specialist, Dallas, TX <ul style="list-style-type: none">• Providing services via Magna Media Arts LLC Mar 2020 - Present• Independent Contractor Feb 2018 – Mar 2020• Video Editing with Adobe Premiere Pro• Photo Editing with Adobe Photoshop and Lightroom |

- File Conversion with Adobe Encoder
- Metadata Editing with Adobe Bridge
- Database Entry with FileMaker Pro
- Strong Organizational skills, spelling, and data entry skills
- Archival Management and Preservation

April 2012 –
March 2020

Self-Employed

Freelance Photographer, Videographer, Marketing, Dallas-Fort Worth, TX

- Weddings, Anniversaries, High School Graduation, Memorials etc.
- Videography and Video Editing
- Photography
- Graphic Design
- Social Media Marketing
- Digital Content Writing
- Website Design and Development
- Clients included University of North Texas, Greater Denton Wise County Association of Realtors, Dr. Smart Phones, Super Inspector

November 2016 –
February 2017

University of North Texas

Social Media Strategist, Denton, TX

- Photography
- Instagram Management
- Social Media Planning
- Third-party Apps such as InstaRepost, InstaSave, Layout, Boomerang, and Flipagram.

September 2016 –
December 2016

Greater Denton Arts Council

Social Media Marketing Intern, Denton, TX

- Customer Service and Patron Relations
- Membership Sales
- Social Media and Public Relations
- Photography
- Videography

August 2015 –
February 2016

Parallax Digital Media

Videography Intern, Denton, TX

- Video Production
- Video Editing
- Graphic Design

February 2010 –
October 2015

University of North Texas – Division of University Relations, Communications, and Marketing – Photography Department

Student Photographer and Archivist, Denton, TX

- Archival Management and Preservation of print and digital photography
- Metadata Editing with Adobe Bridge
- Portrait Photography for staff, faculty, and graduate students
- Photo Editing with Adobe Photoshop
- Production Assistance
- Photography for UNT social media and UNT news

May 2012 –
March 2014

University of North Texas – International Recruitment Office

Student Videographer, Denton, TX

- Video Production
- Photography
- Video Editing with Apple Final Cut Pro, Adobe Premiere
- Audio Editing with Apple Soundtrack Pro, Adobe Audition
- Motion Graphics with Apple Motion
- Graphic Design with Adobe Photoshop

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| Community service | February 2009 – May 2009 | City of Carrollton Video Production Intern, Carrollton, TX <ul style="list-style-type: none"> • Video Production • Video Editing with Apple Final Cut Pro • Audio Editing with Apple Soundtrack Pro • Graphic Design with Adobe Photoshop • Animation with Flash MX • Motion Graphics with Apple Motion |
| | July 2022 – August 2022 | Greater Denton Arts Council Volunteer, Denton, TX <ul style="list-style-type: none"> • Videography • Photography • Livestreaming |
| | July 2016 – December 2016 | Denton Animal Shelter Volunteer, Denton, TX <ul style="list-style-type: none"> • Videography • Photography • Animal Care Assistance • Facility Maintenance Assistance |
| | March 2011 – March 2015 | The Big Event at UNT Volunteer, Denton, TX <ul style="list-style-type: none"> • Shelving Assistance at the Christian Community Action Thrift Shop in Carrollton, TX • Clean Up at the Environmental Learning Center at McNair Elementary in Denton, TX |
| | November 2010 – December 2010 | Denton Community Food Center Volunteer, Denton, TX <ul style="list-style-type: none"> • Shelving Assistance • Administering Food |
| Organizations | 2023 - Present | STEM League Member, Dallas, TX |
| | 2015 | Alpha Nu Chapter of Delta Alpha Pi Member, Denton, TX |
| | 2015 | Hatch Visuals Photographers Member, Denton, TX |
| | 2015 | UNT PR Club (PRSSA) Secretary, Denton, TX |
| | 2014 | UNT PR Club (PRSSA) Historian, Denton, TX |
| | 2014 | National Association of Black Journalists Member, Denton, TX |
| | 2013 | North Texas Television Executive Producer of <i>Innovators Today</i> , Denton, TX |
| | 2010 - 2013 | North Texas Television Video Editor and Production Assistant, Denton, TX |
| | 2011 - 2013 | UNT Ad Club (AAF) Member and Volunteer Photographer, Denton, TX |
| | 2012 | UNT Marketing Club (AMA) Member, Denton, TX |
| Languages | English | Native language |
| | Spanish | Novice Level |
| | Japanese | Novice Level |
| Skills | Programming | Python, Kotlin, R, SQL, HTML, CSS |
| | Data Science Tools | Pandas, NumPy, SymPy, Matplotlib |

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| Software | Adobe Creative Suite, Microsoft Office Suite, Google Drive, MailChimp, WordPress, IntelliJ IDE, PyCharm IDE, Visual Studio, Chat GPT, WolfRam Alpha, OpenRouter API, Mistral (Gen AI), Nous: Hermes (Gen AI), OpenAI Text to Speech, Mimic3 Text to Speech, Box, Crooze |
| Creative | Photography, Video Production, Copywriting, Graphic Design, Website Design |
| Platforms | Windows PC, Mac O/S |
| Misc | Project Management, Technical Troubleshooting, Digital Content Management, Website Development, TI-84 Plus CE |

Projects

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| Storage Data Analysis – Python and Excel | <ul style="list-style-type: none"> Conducted a comprehensive analysis of storage use across different directories using Python and Excel. Presented findings to client Southern Methodist University in a report, focusing on trends in data storage and archival demands. |
| Bar Chart - Kotlin | <ul style="list-style-type: none"> Wrote a Kotlin program asking the user to input sales data, outputting to a color-coded bar chart for comparative analysis. Utilized ANSI escape codes to color code the bars. |
| UNT PRSSA Semester Book | <ul style="list-style-type: none"> Designed and edited an interactive HTML5 Publication for the 2014-2015 school year, highlighting the organization's activities and members. Published on Joomag. |

Hobbies

- **PC Gaming and Modding:** Including using programming and problem-solving skills to troubleshoot and configure mods that utilize LLMs to make Non-Playable characters more interactive and lifelike.
- **Anime, TV, Marvel Comics:** Enthusiastic towards transmedia storytelling.
- **Reading and Writing:** Passionate about exploring creative fiction and non-fiction.