

# MATT PAVLIK

Adept at analyzing business requirements, communicating to facilitate understanding, and designing efficient, reliable, and creative software solutions.

Self-motivated lifelong learner with depth and breadth of knowledge from 14+ years of internet, business, and scientific software development experience, and 20+ years of healthcare experience.

Desires to continue technical career by focusing on research and development of Computer Game, Natural Language Processing, Machine Learning, Data Science, and Artificial Intelligence applications.

## PROFILE OF QUALIFICATIONS

- **Software Development of Accounting System:** Develop and maintain ASP.NET C# MS-SQL internet application to automate record-keeping, appointment scheduling, receipt generation.
- **Research and Development:** Continually investigate state-of-the-art ideas and software solutions to meet business needs. Recent projects involve Natural Language Processing and Understanding, Python, Deep-learning, Transformers, and Flask Web Development.
- **Website Chatbot:** Design and configure NLP chatbot using Botpress software to answer customer questions written in natural language.
- **Game Prototyping:** Acquire game development skills by researching and developing prototypes using game engines (Godot, Unity) and packages (Pygame).
- **Process Improvement:** Maintain awareness of business processes. Review and update procedures on a regular basis with the goal to minimize errors and misunderstanding.
- **Windows Server Administration:** Manage all aspects of a dedicated server to operate my company. Install and configure software to support business objectives.
- **Writing and Graphic Design:** Create attractive products (books, card decks, courses) to communicate counseling principles and promote mental health.
- **Staff Development:** Trained inexperienced counselors and administrative support staff.
- **Software Development of Clinical Trial System:** Enabled end-user access to clinical data via IVRS and internet applications using ASP.NET C# MS-SQL. Translated business requirements (complex pharmaceutical algorithms to dynamically randomize subjects) into a reliable software application.
- **Team Leadership:** Provided oversight of a small group of developers and test engineers to ensure software projects are built to specification.

## EDUCATION

<b>MS in Computer Science</b> <i>University of Illinois, Springfield, IL</i>	<b>GPA 4.0/4.0</b>	<b>2022 – 2023</b> (August)
<b>MA in Clinical Pastoral Counseling</b> <i>Ashland Theological Seminary, Ashland, OH</i>	<b>GPA 3.75/4.0</b>	<b>1995 – 2000</b>
<b>BS in Computer Science</b> <i>University of Illinois, Urbana, IL</i>	<b>GPA 4.4/5.0 (4.8 in CS)</b>	<b>1989 – 1993</b>

## PROFESSIONAL HISTORY

<b>Owner, Counselor, Software Engineer</b> <i>New Reflections Counseling, Inc., Dayton, OH</i>	<b>2003 – Present</b>
---	-----------------------

<b>Senior Software Engineer</b> <i>Medpace, Inc., Cincinnati, OH</i>	<b>2001 – 2004</b>
<b>Software Consultant</b> <i>Employed and assigned to client sites in Ohio (while working toward master's degree)</i>	<b>1995 – 2001</b>
<b>Software Engineer</b> <i>Motorola, Inc., Austin, TX</i>	<b>1993 – 1994</b>
<b>Undergraduate Research Assistant</b> <i>Computing Research Lab, Urbana, IL</i>	<b>1991 – 1993</b>

## SKILLS

**Expert in:** Research, Analysis, Design, Communication and Understanding

**Accomplished in:** Python, Database Design, SQL, Object Oriented Programming, C#, C++, C, Perforce Configuration Management, IIS

**Qualified in:** Natural Language Processing, Machine Learning, Artificial Intelligence, Unity, Godot, Pygame, Flask, CSS, HTML, Bootstrap 5, Adobe AI, PS, ID

## CERTIFICATIONS & LICENSES

**PCAP – Certified Associate in Python Programming** **2021 – Present**  
*Python Institute - <https://verify.openedg.org/?id=b7jk.SMEt.vwaV>*

**MBTI® Certified** **2019 – Present**  
*The Myers-Briggs Company*

**LPCC – Licensed Professional Clinical Counselor** **2000 – Present**  
Recognized by the State of Ohio as a Licensed Professional Clinical Counselor (LPCC) with Supervisor status (S). Help a variety of clients (adults, adolescents, married, single) to grow personally and spiritually in areas such as marital conflict, depression, and emotional trauma. Provide supervision to other counselors seeking independent licensure.

## ACTIVITIES

**Graduate Research Collaboration in NLP Models** **2023 – Present**  
*Professor Elham Khorasani Buxton, University of Illinois, Springfield, IL*

### Interests

Running, Watching Movies, Playing Board and Computer Games, Reading, and Writing