Patrick Gadula

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EDUCATION

University of Illinois at Urbana-Champaign *Graduated: Spring 2025*
UIUC College of Liberal Arts and Sciences *Institution GPA: 3.5/4.00*
BS in Computer Science & Mathematics

University of Illinois at Chicago
UIC College of Engineering EIB *Institution GPA: 3.83/4.00*
BS in Computer Science with Software Engineering Concentration *Achievements: Dean's List*

WORK EXPERIENCE

WishTender - Chicago, Illinois
Software Developer Intern I *June 2024 - August 2024*
- Developed a gift scheduling feature allowing users to set future delivery dates for gifts, driving increased user engagement and repeat usage
- Optimized database queries by adding missing indexes and restructuring queries to leverage database side aggregations, reducing query response times by 30%
- Refactored gift matching algorithm, by introducing efficient sorting and binary search, improving processing speed and enhancing system performance

PROJECTS

Vet-Clinical Chatbot (Python)
- Developed a veterinary AI assistant using FAISS for efficient document retrieval
- Tokenized and processed veterinary texts for domain-specific knowledge extraction
- Leveraged TF-IDF for keyword relevance scoring from a given corpus
- Integrated OpenAI's LLM for real-time Q&A responses

Search Engine (C++)
- Integrated a search engine where given a file you can do a search query on a specific word
- Implemented token cleaning and gathering for the base functionality of search query

Casino Roulette Simulator in Minecraft (Java)
- Developed a custom roulette game inside a Minecraft server, implementing game mechanics, betting logic, and probability-based payouts
- Applied concepts of probability and randomness to ensure fair and accurate game outcomes, simulating real casino dynamics

TECHNICAL SKILLS

Languages: *Python, Java, C++, HTML/CSS, SQL, Assembly, Haskell, Javascript, Typescript*
Skills: *Natural Language Processing, Generative AI, Data Structures, Algorithms, Quantitative Math, Numerical Methods, Formal Methods, Object Oriented Programming*
Tools: *MongoDB, SQL, Github, OpenAI, Neo4j, React, Node, Vite, Express*