William (Noël) Barron
AI Engineer/Data Scientist ⊙ 23 Sullivans Landing, Missouri City, TX 77459

📞 (832) 361 9133   ✉ nbarroncs@gmail.com   🌐 https://noelbarroncs.com   ⌾ https://github.com/chocolatevanille

PROFESSIONAL SUMMARY

I am a recent Computer Science graduate with a robust foundation in **AI engineering, machine learning, object-oriented programming, RESTful APIs, and UI/UX design**. Certified by Microsoft in AI fundamentals with hands-on experience in developing ML models and pipelines using Azure, I am passionate about leveraging emerging AI technologies and cloud services to create practical and innovative solutions for real-world challenges.

EDUCATION

NORTHWESTERN UNIVERSITY, Evanston, IL
Bachelor of Sciences, Computer Science, June 2024
Emphasis on AI Programming, Natural Language Processing, and Knowledge Representation
Honors: Dean's List (Fall 2017)
Clubs: Residence Hall Association, President *(Sept 2018 - Dec 2018),* Treasurer *(Mar 2018 - Sept 2018*)

PROFESSIONAL EXPERIENCE

NORTHWESTERN UNIVERSITY, Evanston, IL
Peer Mentor, September 2018 –June 2019

- Led instruction for 10 students per quarter in programming fundamentals using Racket and C++
- Organized and conducted weekly supplementary lectures and office hours to support student learning
- Guided students in utilizing the VS Code debugger to enhance efficiency in identifying bugs within C++ programs

CREDENTIALS
- ❖ Azure AI Fundamentals (AI-900) (942/1000) - <u>Microsoft</u>, July 2024
- ❖ Build a natural language processing solution with Azure AI Language - <u>Microsoft</u>, July 2024
- ❖ Create an intelligent document processing solution with Azure AI Document Intelligence - <u>Microsoft</u>, July 2024

TECHNICAL PROFICIENCIES & METHODOLOGIES

- ❖ **Languages**: C, C#, C++, Python, Java, Ruby, Perl, T-SQL, HTML5, JavaScript, CSS, Common Lisp, Racket
- ❖ **Tools**: PyTorch, NLTK, CUDA, Microsoft Azure (Portal, Studio, SDKs), Docker, Postman, VMware, JupyterLab, Android Studio, Git/GitHub, MySQL, Inno Setup, ChatGPT, IntelliJ IDEA, VSCode
- ❖ Proficient with data structures and algorithms
- ❖ Clean, efficient, and scalable coding practices with concise documentation
- ❖ Agile development methodology and iterative design such as Scrum
- ❖ Soft skills: *Teamwork, Communication, Empathy, Passion, Innovation*

PROJECTS

YOUTUBE SENTIMENT ANALYSIS, NLP with PyTorch *(Creator, 2024, GitHub*)
Personally trained AI model that pulls comments from YouTube videos and determines general sentiment
Key implementations: PyTorch, CUDA, JupyterLab, Docker, Transformers, Pandas, NLTK, scikit-learn, model training

RECIPES, Knowledge Representation and Reasoning AI *(Creator, 2023, GitHub*)
AI ontology tailored for recommending ingredient substitutions based on food preferences and allergens

Key implementations: Knowledge base, forward/backward chaining

GODMASTERHELPER, OOP in Python *(Creator, 2020–Present, [GitHub](#))*
Enhances the gaming experience for Hollow Knight players by tracking their progress and abilities in the Godmaster DLC
Key implementations: Object-oriented programming, data input, file storage and retrieval, user-friendly GUI

For a more detailed look at all of my projects including demos, please visit [my website.](#)