

William (Noël) Barron

AI Engineer/Data Scientist



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[LinkedIn](#)



[Portfolio](#)



[GitHub](#)

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) - [Microsoft](#), July 2024
- ❖ Build a natural language processing solution with Azure AI Language - [Microsoft](#), July 2024
- ❖ Create an intelligent document processing solution with Azure AI Document Intelligence - [Microsoft](#), July 2024

TECHNICAL PROFICIENCIES & METHODOLOGIES

- ❖ **Languages:** C, C#, C++, Python, Java, Ruby, Perl, T-SQL, XML, HTML5, CSS, JavaScript, Common Lisp, Racket
- ❖ **Tools:** PyTorch, NLTK, CUDA, Scikit-Learn, Transformers, 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
- ❖ Extremely quick and self-motivated learner
- ❖ 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

MASTER THE GODS FOR ANDROID, Java and XML Android App Design (*Creator, 2024, [GitHub](#)*)

Enhances the gaming experience for Hollow Knight players by tracking their abilities in the Godmaster DLC
Key implementations: Object-oriented programming, Android Studio, UI/UX design, data structures, data persistence

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

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