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

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PROFESSIONAL SUMMARY

I am a recent Computer Science graduate with a robust foundation in **AI engineering, machine learning, software development, 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, High Honors (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

- ❖ **AI Technologies:** PyTorch, Scikit-Learn, Transformers, Keras, NLTK, nlpaug, Azure AI Services, Azure Machine Learning Studio, Azure Language Studio, CUDA
- ❖ **NLP Solutions:** Sentiment Analysis, Named Entity Recognition, Text Analysis, Q&A Services, Custom Text Classification, Language Translation, Speech-Enabled Apps
- ❖ **Technologies**: Pandas, NumPy, SciPy, Docker, Postman, VMware, ReactJS, Node.js, JupyterLab, Android Studio, Power BI, Apache Maven, Git/GitHub, MySQL, VSCode, Inno Setup, ChatGPT, IntelliJ IDEA
- ❖ **Languages**: Python, C, C#, C++, Java, Ruby, Perl, T-SQL, XML, HTML5, CSS, JavaScript, Common Lisp, Racket
- ❖ Proficient with data structures and algorithms
- ❖ Clean, efficient, and scalable coding practices with concise documentation
- ❖ Agile development methodology (Scrum) and waterfall method
- ❖ 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, Scikit-Learn, NLTK, Transformers, CUDA, Pandas, JupyterLab, Docker, 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

AI 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.](#)