William (Noël) Barron
Software Developer

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PROFESSIONAL SUMMARY

As a recent Computer Science graduate with a strong foundation in **full-stack software development, AI engineering, and machine learning**, I am skilled in developing both front-end interfaces and back-end system architectures. Certified by Microsoft in AI fundamentals, I have hands-on experience in developing and deploying ML models and pipelines on Azure. My passion lies in leveraging emerging technologies to create innovative solutions that address real-world challenges.

EDUCATION

NORTHWESTERN UNIVERSITY, Evanston, IL
Bachelor of Sciences, Computer Science, June 2024
Emphasis on AI Programming, Natural Language Processing, and Software Development
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, Keras, Transformers, NLTK, CUDA, Azure AI Services (including Azure Machine Learning Studio, Azure Language Studio, SDKs, CLI)
- ❖ **NLP Solutions:** Sentiment Analysis, Named Entity Recognition, Text Analysis, Q&A Services, Custom Text Classification, Language Translation, Speech-Enabled Apps
- ❖ **Technologies**: Spring Boot, Apache Maven, Ruby On Rails, ReactJS, Node.js, Docker, Postman, MySQL, JupyterLab, Android Studio, VMware, ChatGPT
- ❖ **Data Analysis & Visualization:** Power BI, Pandas, NumPy, SciPy
- ❖ **Version Control & Development Tools:** Git/GitHub/GitPod, VSCode, Vim, Inno Setup
- ❖ **Languages**: Python, C, C#, C++, Java, Ruby, Perl, T-SQL, XML, HTML5, CSS, JavaScript, Common Lisp, Racket
- ❖ **Skills:** Proficient with data structures and algorithms, clean and scalable coding practices, concise documentation
- ❖ **Methodologies:** Agile (Scrum), Waterfall
- ❖ **Personal Attributes:** Quick and self-motivated learner, strong teamwork, communication, empathy, passion, and 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.](#)