

Eric Youmans

240-281-5413 | ericyoumans1@gmail.com | [linkedin.com/in/eric-youmans](https://www.linkedin.com/in/eric-youmans)

CLEARANCE INFORMATION

Clearance Level: Secret, Department of Defense (Active)

EDUCATION

University of Texas <i>Master of Science in Artificial Intelligence, 4.0 GPA</i>	Austin, TX <i>Aug. 2024 – Present</i>
University of Maryland <i>Bachelor of Science in Computer Science and Economics, 3.31 GPA</i>	College Park, MD <i>May 2021 – Dec. 2023</i>
Montgomery College <i>Associate of Science in Mathematics, 3.44 GPA</i>	Rockville, MD <i>May 2019 – May 2021</i>

EXPERIENCE

Software Engineer <i>DEVCOM Army Research Laboratory, GTS LLC</i>	Jan. 2024 – Present <i>Adelphi, MD</i>
<ul style="list-style-type: none">Developed multiple data collection algorithms in C tailored for proprietary hardware, resulting in a 30% increase in data acquisition efficiency, enabling robust datasets for ML training and validationEngineered multiple machine learning and detection algorithms using TensorFlow, LiteRT, and Python, improving model prediction accuracy by approximately 25%, validated through LIME analysisLed 4 interns, providing on-site support and running weekly stand upsCollaborated with cross-functional teams to improve efficiency on multi-team projects	
Software Engineer Internship <i>DEVCOM Army Research Laboratory</i>	May 2023 – Dec. 2023 <i>Adelphi, MD</i>
<ul style="list-style-type: none">Developed and deployed a machine learning algorithms in Python, establishing foundational ML capabilities that significantly enhanced system functionality and performanceExecuted advanced data cleansing and complex transformations in Python, improving dataset quality and reducing preprocessing errors by approximately 30%Designed and deployed an optimized data collection algorithm in C, streamlining data aggregation and increasing data accuracy by nearly 40%Delivered technical presentations, effectively communicating complex information to diverse technical and non-technical audiences	
Research Assistant <i>Thomas Drechsel, University of Maryland</i>	Aug. 2022 – May 2023 <i>College Park, MD</i>
<ul style="list-style-type: none">Provided research assistance for "Identifying Monetary Language Shocks: A Natural Language Approach", pioneering new methods in linguistic analysis of economic indicatorsCustomized regression R packages such as Lasso and Ridge to gain insight on internal workings of their specific implementationsDeveloped Python scripts optimizing PDF data parsing and I/O management, enhancing processing efficiency by approximately 67%	

TECHNICAL PROJECTS

Tiny Shakespeare Language Model <i>PyTorch, Jax</i>	Sep. 2024
<ul style="list-style-type: none">Developed a bigram language model and multi-head attention model in PyTorch trained on the Tiny Shakespeare CorpusRe-implemented models to JAX, deepening expertise in functional machine learning frameworks	

TECHNICAL SKILLS

Languages: C/Embedded C, Python, JavaScript, Java, HTML/CSS, Markdown, R, JAX
Tools/Systems: Git, ZephyrRTOS, VS Code, Linux, BluetoothCTL
Frameworks/Libraries: TensorFlow, Pytorch, LiteRT, Pandas, Polars, NumPy, Matplotlib, LIME