

# Yonathan T. Gashu

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## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science in Computer Science - GPA 3.85/4.0*

*Graduating May 2027*

- Specializing in *Artificial Intelligence & Information Internetworks*
- Coursework: Computer Organization, Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra

## EXPERIENCE

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### Department of Defense (DoD)

May 2024 - Present

*Artificial Intelligence Research Intern*

*Washington, DC*

- Work alongside senior researchers on a project investigating on a project knowledge graphs (KGs) from unstructured text
- Build a Retrieval-Augmented Generation (RAG) pipeline, enabling a LLM to retrieve answers from text files and generate responses based on the information in the file
- Develop methodologies for Named Entity Recognition (NER) and Relationship Extraction (RE) to populate the KGs
- Collaborate with researchers on the development of a KG-RAG system to enable Knowledge Graph Question Answering (KGQA)
- Contribute to advancements in novel algorithms for identifying contradictions within KGs
- Write Python scripts using pandas & numpy for efficient processing of data from PDF to KG format

*Software Developer Intern*

Sep. 2022 - Aug. 2023

- Member of the government development team in the Data Targeting Solutions division. This team is essential for the creation of enterprise applications in support of targeting using Cloud Native techniques
- Selected and completed stories within each Sprint, enabling features to be delivered on time
- Participated in scrum Agile development methodology, including all ceremonies
- As part of a DevOps team, supported project from requirements gathering, development, unit testing, integration testing to deployment and maintenance
- Created a developer-sided API to allow for more efficient creation of test agreements/datafeeds
- Utilized Java to develop backend database management features for internal web application, and successfully integrated those functionalities into the frontend interface

### Verizon

Jul. 2022 - Aug. 2022

*System Developer Intern*

*Remote*

- Implemented GitLab and Jenkins for streamlined continuous integration and continuous deployment (CI/CD) processes, facilitating efficient code management
- Acquired expertise in essential systems, encompassing DevOps practices, AWS, microservices architecture, and cloud computing solutions

## AWARDS

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**Stokes Educational Scholarship:** Selected to receive up to \$30,000 in tuition scholarship, a year-round salary, and summer internships

**Monetary Award:** Granted by the Department of Defense for achieving high quality results as a Software Developer Intern

**Georgia Tech Provost Scholarship:** One of 60 students awarded \$85,000 over four years

## TECHNICAL SKILLS

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**Languages:** Java, Python, C#, Rust

**Frameworks:** Vue, React, JUnit

**Developer Tools:** Linux, Git, Docker, Amazon Web Services, Google Cloud Platform, VS Code, IntelliJ, Jenkins, JIRA, Unity