

John Gunerli

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Education

Georgia Institute of Technology | Atlanta, GA

2022 – 2024

Bachelor of Science in Computer Science, Concentration: People & Intelligence, GPA 3.43, Research Option

Experience

United Parcel Service

June 2023-Ongoing

Machine Learning Intern & Artificial Intelligence Co-Op

- Assisted in the development of an internal LLM system utilizing Azure Databricks, OpenAI Enterprise MosaicML MPT, and Databricks Dolly Model using Azure services and Vector Databases.
- Worked on internal APIs for allowing outside customers to utilize UPSC infrastructure using C# and Angular.
- Led both frontend and backend development teams comprising 7 interns, communicated with upper-level management for achievable deliverables and measurable impact.

Georgia Institute of Technology — Expressive Machinery Laboratory

August 2023 – Ongoing

Undergraduate AI/ML Researcher

- Undergraduate thesis focused on the preparation and qualitative coding of dance video data for integration with various ML/DL algorithms.
- Working on the development of a Python-based video segmentation pipeline using clustering and ML algorithms as a core component using multi-task classifier neural network.

Georgia Institute of Technology — LIDAR Laboratory

September 2022 – Ongoing

Undergraduate Student Lead Robotics/Computer Vision Researcher

- Utilized OpenCV's HOG detector to successfully detect humans in images and videos.
- Demonstrated the ability to accurately measure the distance of detected humans from the camera.
- Contributed to the development of a real-time human detection system for CASSIE, the GT LIDAR Group's robot system for human trajectory detection.

Georgia Institute of Technology — GACF Research and Translation Core Center

May 2022 – September 2022

Undergraduate Student Assistant: Software Developer/UX Designer

- Designed and built a website from scratch using Typescript, Figma, and React; ensuring that the website met HIPAA standards and hosted it on AWS.
- Gathered and evaluated information from faculty to tailor the website to their needs, including creating visualization dashboards and implementing secure authentication systems for researchers.
- Presented the design to GT and Emory University faculty for approval throughout the development process.

University of Georgia — Department of Computer Science

August 2021 – December 2021

Undergraduate Student Assistant, Frontend Development Lead

- Acted as Frontend Development Lead and Undergraduate Student Assistant for the CiliaWeb project, an NSF-funded integrated platform for foundational and reproducible ciliary beat pattern analysis.
- Led a team of 3 people in the frontend development department for the project.
- Oversaw the complete redesign of the website using Figma, React, Ant Design, and Bootstrap to create an improved user interface and user experience.

Peero

January 2021- August 2021

Founding Team Member, Head of Product

- Managed projects and programs which combine software, hardware, and internal communication within the team.
- Responsible for strategic product direction, creating a product roadmap, and collaboration of the business team.
- Worked with the in-house designer in the UX for the demo launch application.

Skills

Languages Python, Java, C#, C++, Bash, JavaScript/TypeScript, Julia, R, SQL, HTML/CSS

Technologies: ROS, Figma, Git, Databricks, MS-SQL, PostgreSQL, AWS, Microsoft Azure, Google Cloud Platform

Frameworks/Libraries: Pandas, Plotly, scikit-learn, BeautifulSoup, OpenCV, Tensorflow, PyTorch, Polars, NumPy, Huggingface Transformers, PyG, PySpark, Matplotlib, SciPy, Langchain, NodeJS, Angular, React, .NET

Analytical Techniques: Machine Learning, Computer Vision, Natural Language Processing, Classification and Clustering, Data Science, Photo/Video Segmentation, Large Language Models, Classification and Clustering, Principal Component Analysis