

# ALEXI GLADSTONE

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## EDUCATION

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**University of Virginia (UVA), School of Engineering** **August 2020 - May 2024 (Expected)**

Bachelor of Science in Computer Science — Data Science Minor — 4.0 Cumulative GPA

**Relevant Courses:** Machine Learning • Data Structures & Algorithms • Operating Systems • Computer Architecture • Advanced Software Development • Robotics for Software Engineers • Data Science with R • Cybersecurity • Human Robot Interaction • Databases • Theory of Computation • Software Development Fundamentals • Digital Logic Design • Probability • Statistics • Linear Algebra • Discrete Math • Differential Equations • Cryptocurrency

**Awards/Honors:** Admitted into Rodman Scholar Engineering Honor's program - admitted as top 5% of UVA engineering students • Dean's Summer Undergraduate Research Fellowship - one of less than ten 3rd years to receive • Alex and Barbara Sadler Scholarship • Donald and Jean Heim Scholarship • Valedictorian of Forest Park High School

## SKILLS

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**Languages** C++, C, C#, Java, Python (PyTorch, PyTorch Lightning, Hugging Face, TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib), SQL, NoSQL, R, Bash, Slurm, LaTeX, TypeScript

**Tools/Frameworks** Git, Linux, Docker, Django, Amazon S3 (AWS), Unity3D, ROS

## PUBLICATIONS

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- [Under Review] Md Mofijul Islam, Ganesh Nanduru, **Alexi Gladstone**, Sujan Sarker, Keyan Du, Srikar Gouri, Tariq Iqbal. "COBRA: Comprehending Embodied Referring Expressions from Multiple Perspectives Using Language and Visual Cues" IEEE Transactions on Pattern Analysis and Machine Intelligence
  - [Under Review] Md Mofijul Islam, **Alexi Gladstone**, Tao Groves, Tariq Iqbal, "SDD: A Shape Guided Diffusion Model for Generating Depth"
  - [Under Review] Md Mofijul Islam, **Alexi Gladstone**, Riashat Islam, Tariq Iqbal. "EQA-MX: Embodied Question Answering using Multimodal Human Expression" WACV Winter Conference on Applications of Computer Vision 2024
  - Md Mofijul Islam, **Alexi Gladstone**, Tariq Iqbal. "[PATRON](#): Perspective-aware Multitask Model for Referring Expression Grounding using Embodied Multimodal Cues." AAAI 23 Conference on Artificial Intelligence
  - Md Mofijul Islam, Reza Manuel Mirzaiee, **Alexi Gladstone**, Haley N. Green, Tariq Iqbal. "[CAESAR](#): An Embodied Simulator for Generating Multimodal Referring Expression Datasets." Conference on Neural Information Processing Systems 2022 Datasets and Benchmarks Track

## WORK HISTORY

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**Forward Deployed Software Engineer**, Palantir Technologies, New York, New York **May 2023 - Present**

- Developed real-time news analysis application leveraging LLMs and prompt engineering

**Research Assistant**, Collaborative Robotics Lab @ UVA, Charlottesville, VA **November 2021 - Present**

- Created and trained dozens of novel multimodal learning models using PyTorch Lightning and Slurm that achieved state-of-the-art object detection performance on existing referring expression comprehension datasets
- Actively participated in the brainstorming process for the creation of an EQA dataset (EQA-MX), contributed key idea in image to depth model
- Developed generative depth estimation models using stable diffusion
- Led team of 3 undergraduate students in development of simulator to automatically generate hundreds of thousands of data samples in Unity 3D using C#
- Eradicated memory leak of one gigabyte per sample by profiling over 50 GB of memory on multiple devices

**Research Fellow**, Collaborative Robotics Lab @ UVA, Charlottesville, VA **May 2022 - August 2022**

- Wrangled, cleaned, and visualized 500+ GB of data using Python (Pandas, Matplotlib, Numpy, Seaborn) to create 50+ data visualizations for three papers
- Reviewed three papers for NeurIPS 2022 Datasets and Benchmarks track

- Utilized and debugged simulator to produce over 1 terabyte of labeled data on a Linux-based server

**Cofounder/Software Engineer**, Yuri LLC, Dumfries VA, [GitHub](#) **May 2021 - November 2021**

- Built a game for startup as lead software engineer, managed codebase of 10,000+ lines of code
- Created spatially and environmentally aware Enemy AI using state machines
- Spent 20-30 hours per week building front-end and back-end and led biweekly meetings of 4 – 6 people

**Teaching Assistant**, CS Software Fundamentals @ UVA, Charlottesville VA **August 2021 - December 2021**

- One of two TA's who aided in the creation of course content through developing exam questions and assisting in the creation of a major programming assignment
- Assisted 200+ students in solution generation and debugging on programming homeworks and labs