

# AKHIL GOEL

<https://github.com/agaction>  
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## EDUCATION

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**Georgia Institute of Technology, Atlanta, GA**  
Masters of Science in Computer Science  
Bachelors of Science in Mathematics & Computer Science

*Aug 2018 - May 2023 (Expected)*  
GPA: n/a  
GPA: 3.67/4.0

## WORK EXPERIENCE

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**Google LLC**  
*Software Engineering Intern*

May 2022 - August 2022  
*Mountain View, CA*

- Designed and implemented subscription free-trial abuse detection algorithms on Google Play Store.
- Analyzed impact of abuse checks and created user experiments to enable ramp-up of abuse verdicts.

**Facebook AI Applied Research**  
*Software Engineering Intern*

May 2021 - August 2021  
*Menlo Park, CA*

- Designed and developed a library for influential instance model interpretability algorithms for Captum.
- Created tutorials and applied algorithms to Facebook AI Multimodal models for platform integrity.

**Varian Medical Systems**  
*Software Engineering Intern*

May 2020 - August 2020  
*Atlanta, GA*

- Built automated data preprocessing pipeline for developing local deep learning segmentation models.
- Developed deep volumetric models for organ segmentation within Varian's oncology PACS, Velocity.

**MIT Lincoln Laboratory**  
*Summer Research Intern & Student Technical Researcher*

June 2019 - August 2020  
*Lexington, MA*

- Used Monte-Carlo simulations to develop a time-gating algorithm for a novel imaging technique.
- Conference paper at SPIE Photonics West, San Francisco, February 2020. Paper available at [bit.ly/AGpaper1](https://bit.ly/AGpaper1).
- 1<sup>st</sup> Place Team prize for proposal on automatic American Sign Language translation. Received funding.

## RESEARCH

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**Visually Grounded PointGoal Navigation at CVMLP Lab**

*August 2021 - May 2022*

Research on visually-grounded navigation in dynamic environments. Advised by Prof. Dhruv Batra.

**Autonomous Robot Navigation at Georgia Tech IVALab**

*Jan 2019 - May 2020*

Applying reinforcement learning algorithms to improve traditional local planning methods in robotics.

## TECHNICAL SKILLS

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**Programming Languages**

Python, Java, C/C++, Bash

**Software & Tools**

PyTorch, Tensorflow/Keras, Numpy, Git, Mercurial, LaTeX

**Concepts & Coursework**

Probability Theory, Statistics, Combinatorics, Numerical Analysis, AI, Stochastic Processes, Data Structures, Algorithms, Computer Vision, Deep Learning, Vector Calculus, Linear Algebra, Comp. Architecture, Convex Optimization, High Performance Parallel Computing

## LEADERSHIP & EXTRACURRICULAR

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**External Operations - The Agency:** President for AI/ML research club at Georgia Tech.

**GTA - Computer Vision:** Held weekly office hours and grading for computer vision course.