

AKHIL GOEL

<https://github.com/agaction>
(571) 353 - 9527 ◊ akhil.goel@gatech.edu

EDUCATION

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

Aug 2018 - July 2023 (Expected)
GPA: 3.375/4.0
GPA: 3.67/4.0

WORK EXPERIENCE

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.
- 1st Place Team prize for proposal on automatic American Sign Language translation. Received funding.

RESEARCH

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

Programming Languages

Python, C/C++, Java, Bash

Software & Tools

PyTorch, Keras, Numpy, Git, MPI, CUDA, Solidity, Qiskit, AWS

Concepts & Coursework

Probability, Statistics, Combinatorics, Numerical Analysis, AI, NLP, Stochastic Processes, Data Structures, Algorithms, Computer Vision, Deep Learning, Vector Calculus, Linear Algebra, Comp. Architecture, Convex Optimization, HPC, Quantum Computing, Blockchain & Crypto

LEADERSHIP & EXTRACURRICULAR

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.