

Aneesh Gupta

San Francisco, CA

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EDUCATION

Duke University — *Bachelor of Science (Magna Cum Laude)* Aug 2018 - Dec 2021
Major in Computer Science, Minor in Mathematics. **GPA: 3.92/4.0**
Coursework: Algorithms, Computer Architecture, Discrete Math, Probability, Linear Algebra, Databases, Adv. Software Design, Applied Math, Combinatorics, ML, Artificial Intelligence, Sampling & Markov Chains

WORK EXPERIENCE

Nuro, Inc. Mountain View, CA
Sr. Software Engineer - Perception ML Data Dec 2024 - Present
Software Engineer - Autonomy / Perception Feb 2022 - Dec 2024

- Driving architectural and data improvements to the AV's ML models to help improve rare object detection.
- Building offline auto-labeling models and systems to label more data at lesser costs for ML model training.
- Writing onboard modules to detect onroad incidents and initiate human-in-the-loop safety responses.
- Designing evaluation metrics, frameworks, and pipelines to measure and gate ML model performance.

Meta, Inc. Menlo Park, CA
Software Engineering Intern - Networks Infra and Delivery Systems May 2021 - Aug 2021

- Built a database schema *linting* service to analyze and validate data from networks and data-centers.
- Designing end-to-end API using **Thrift**, **Python**, and **PHP** to expose networks metadata to internal UI.
- Enhanced CI/CD and auditing frameworks to improve test coverage, and reduce false positive errors.

ANB Systems, Inc. Houston, TX
Software Engineering Intern May 2020 - Aug 2020

- Enhanced document recognition by improving Python image extraction algorithms accuracy by **75%**.
- Sped up data analysis and visualization by **3.5x** by building an **AWS Lambda** based ETL worker.


Evidence for Policy Design - Harvard Kennedy School New Delhi, India
Software Development Intern May 2019 - Aug 2019


- Built custom software packages using **Python** for data ETL between **SQL** servers and web application.
- Increased processing efficiency for social networks data by **80%** by using *fuzzy string-matching* algorithms.


Dept. of Computer Science, Duke University Aug 2019 - Dec 2021
Teaching Assistant: Intro CS, Interdisciplinary Computing, Programming Interview Skills, Databases

PUBLICATIONS & PROJECTS

Transformers For Recognition In Overhead Imagery: A Reality Check **PDF** 
Francesco Luzi, Aneesh Gupta, Leslie Collins, Kyle Bradbury, Jordan Malof WACV 2023

Genesis.AI: Created a Text-2-Video GIF generator using opensource generative models. Dec 2023
Made this over a weekend using Python, Modal, Svelte, Cloudflare, & Supabase. 

Applied Machine Learning Lab  - *Undergraduate Researcher* Aug 2019 - Dec 2021

- Semantic segmentation for medical scans and satellite imagery using methods like encoder-decoder networks, vision transformers, texture synthesis, style transfer, and other ML techniques. 

SKILLS

Programming Languages	Python, C++, Java, JavaScript, Scheme, R, SQL
Frameworks & Tools	Django, MongoDB, React, PyTorch, TF, Git, \LaTeX , Pandas, NumPy
Other Interests	History, Economic Development, Philosophy, Computer Vision, Graphics