

Aneesh Gupta

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EDUCATION

DUKE UNIVERSITY
BS IN COMPUTER SCIENCE
MINOR IN MATHEMATICS
May 2022 | Durham, NC
Cum. GPA: 3.98 / 4.0
Major GPA: 4.0 / 4.0

Dean's List, All semesters

DELHI PUBLIC SCHOOL
Grad. May 2018 | New Delhi, IN
Junior Science Talent Scholar

LINKS

Website:// aneeshgupta.me
Facebook:// [xneesh](https://www.facebook.com/xneesh)
Github:// [aneeshgupta42](https://github.com/aneeshgupta42)
LinkedIn:// [aneeshgupta42](https://www.linkedin.com/in/aneeshgupta42)
Twitter:// [@aneesh_gupta](https://twitter.com/aneesh_gupta)

COURSEWORK

UNDERGRADUATE
Adv. Software Design
Computer Architecture
Deep Learning and Energy Data
Probability, Linear Algebra
Discrete Maths
Data Structures and Algos
Multivariable Calculus
Economic Principles
Prisoner's Dilemma

SKILLS

PROGRAMMING

Languages:
Python • Java • JavaScript
C++ • Matlab • R • \LaTeX
Familiar:
C • Haskell • CSS • Assembly • Shell
Frameworks and Tools:
React • Android • NodeJS • MySQL
Git • HTML

INTERESTS

Software + Data Engineering
Computer Recognition
Data Modelling & Analytics
Tech for Social Development
Geographic Remote Sensing
Philosophy, History

EXPERIENCE

ANB SYSTEMS, INC | SOFTWARE ENGINEERING INTERN

May 2020 - Present | Houston, TX

- Working on improving document and image recognition, by adding heuristic logic to automate error-correction. In production.
- Engineering an end-to-end data lake architecture with API endpoints to ingest, analyze, store and learn from data.

EVIDENCE FOR POLICY DESIGN | SOFTWARE DEVELOPMENT INTERN

May 2019 - Aug 2019 | Harvard Kennedy School | New Delhi, IN

- Built custom software packages using **Python** for data E.T.L pipelines between **SQL** servers and a mobile and web application. Deployed on **AWS**, as part of a *Randomized Control Trial*. In production.
- Created a dashboard in **R** to aid economists in quantitatively analyzing the impact of a policy intervention to measure women's smartphone access in rural India.
- Developed a software package and protocol from scratch to extract, clean, and map social networks data using **fuzzy string-matching**. Outperformed existing system efficiency by 80 %.
- Sped up system testing & data retrieval by 5 times using **Selenium** drivers and headless browsers.

DUKE UNIV. CS DEPARTMENT | TEACHING ASSISTANT

Aug 2019 - Present | Durham, NC

- Leading weekly lab sections, consulting hours, and assisting in grading examinations for Duke's *Introduction to Computer Science* and *Interdisciplinary Computing* courses.
- Helping students clear doubts and understand fundamental Computer Science concepts.

RESEARCH

ENERGY DATA ANALYTICS LAB | UNDERGRADUATE RESEARCH FELLOW

Aug 2019 - May 2020 | Durham, NC

- Built a system to **generate synthetic textures** to model artificial cities realistically. [Link](#).
- Investigated **deep learning** and domain adaption techniques to map electricity distribution and access using satellite imagery.
- Used dimensionality reduction tools such as **tSNE** and **PCA** to improve performance across different geographies.

PROJECTS

- **TurtleLogo**: Built an IDE for the SLogo Turtle Programming Language coding and development. Worked in a team to build a GUI for defining user commands, interpretation, and execution.
- **HouseOfCards**: Created a graphical suite of card games such as Solitaire, Cards Against Humanity, Truth or Dare, and Concentration. Used immutable APIs, Inheritance, Test-Drive-Dev, & MVC Architecture to implement project.