

# Aneesh Gupta

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## EDUCATION

**DUKE UNIVERSITY**  
BS IN COMPUTER SCIENCE  
MINOR IN MATHEMATICS  
May 2022 | Durham, NC  
Cum. GPA: 3.95 / 4.0

Dean's List, All semesters

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

## LINKS

Website:// [aneeshgupta.tech](http://aneeshgupta.tech)  
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 & Energy Data,  
Probability, Linear Algebra,  
Intro to Applied Mathematics,  
Discrete Maths, Writing  
Data Structures & Algorithms,  
Multivariable Calculus,  
Economic Principles,  
Prisoner's Dilemma  
Sampling Theory and Practice

## SKILLS

### PROGRAMMING

Languages:  
Python • Java • JavaScript  
C++ • Matlab • R • Latex  
Familiar:  
C • Scheme • CSS • Shell  
Frameworks and Tools:  
React • Android • NodeJS  
Git • HTML • Flask • SQL

## INTERESTS

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

## EXPERIENCE

**FACEBOOK, INC.** | SOFTWARE ENGINEERING INTERN (INCOMING)  
May 2021 – Aug 2021 | Menlo Park, CA

**ANB SYSTEMS, INC** | SOFTWARE ENGINEERING INTERN  
May 2020 - July 2020 | Houston, TX

- Enhanced document recognition by improving Python image extraction algorithms accuracy by **75%** for ANB System's energy efficiency clients.
- Sped up data wrangling and analysis by **3.5x** by building an **AWS Lambda** based worker to ingest, transform and process large data payloads.
- Designed an end-to-end data lake with **Flask** endpoints to manage data, retrain machine learning models with new data & improve over time.
- Created back-end algorithms for an Android app that takes a picture and extracts specific information using OCR and search patterns.

**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 ETL pipelines between **SQL** servers and a mobile and web application.
- Developed a software package and protocol to extract, clean, and map social networks data using fuzzy string-matching. Reduced existing system memory needs and improved mapping speed by **80%**.
- Sped up system testing & data retrieval by **5x** using **Selenium** drivers and headless browsers to automate scraping and testing.
- Created a dashboard in **R Shiny** to aid economists in quantitatively analyzing the impact of a policy intervention by measuring women's smartphone access and usage in rural India.

**DUKE UNIV. CS DEPARTMENT** | TEACHING ASSISTANT  
Aug 2019 – Present | Durham, NC

- *Intro to CS, Programming Interview Skills, and Interdisciplinary Computing.*

## RESEARCH

**ENERGY DATA ANALYTICS LAB** | UNDERGRADUATE RESEARCH  
Aug 2019 – May 2020 | Durham, NC

- Built a system to generate synthetic textures to model artificial cities realistically, to improve and generate richer training data. [Link](#) ↗
- Investigated deep learning techniques to map electricity distribution and access using satellite imagery, as a tool for policy makers.
- Used dimensionality reduction tools such as tSNE and PCA to improve performance and adapt across different rural and urban geographies.

## PROJECTS

- **Minerva** ↗: Built a search engine for online-learning resources that provides users with top courses, videos, books, blogs, and code-bases in a single place. Built using React, Flask, and web scraping in Python.
- **HouseOfCards** ↗: Created a graphical suite of card games such as Solitaire, Cards Against Humanity, Truth or Dare, and Concentration. Used immutable APIs, Inheritance, Test-Driven-Development, & MVC Architecture to implement project. Built using JavaFX and Stylesheets.