




# ANAY GUPTA

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Portfolio: <https://anaygupta.github.io>

## EDUCATION

### B.S. Computer Science

Arizona State University

Barrett Honors College

Expected: May 2021

## SKILLS

### Proficient Programming Languages:

Python, SQL, Java, MATLAB, C/C++, JavaScript, HTML, PHP

**Software:** MySQL/PostgreSQL, Unix/Linux, Tableau, Jira, scikit-learn, git, pandas, NumPy/SciPy

**Hardware:** Microsoft Kinect, Intel Edison (IoT platform)

**Other/Soft Skills:** Agile Methodologies, Analytical Problem-Solving, Effective Written & Verbal Communication, Adaptability, Creativity, Public Speaking

## AWARDS

- **The Sun Award for Individual Excellence**  
(Fall 2018 and Spring 2019)
- **National Merit Scholar**  
(August 2017 – May 2021)
- **H&R Block CAPS Dollars & Sense Scholar**  
(August 2017 – May 2021)
- **Dean's List** (Latest: Spring 2019)

Soft-computing oriented student highly motivated to enhance skills such as data mining, machine learning, and computer vision towards momentous real-world problems.

## COURSEWORK

### Completed:

- CSE 494: Artificial Intelligence for Cyber Security
- CSE 360: Introduction to Software Engineering
- CSE 330: Operating Systems
- IEE 380: Probability & Statistics for Engineering Problem Solving
- CSE 310: Data Structures and Algorithms
- MAT 343: Applied Linear Algebra
- MAT 243: Discrete Math Structures

## EXPERIENCE

### Visa Inc. – Austin, TX

Software Development Intern

May 2019 - Present

- Optimizing existing pipeline used to provision end-to-end infrastructure as part of Solution Design Team. Using JavaScript and Visa's internal cloud platform.
- Augmenting Tableau dashboards by providing insights and key delivery metrics to drive efficiency and management of projects.

### The Decision Theater Network – Tempe, AZ

Software Developer

Apr 2018 - Present

- Addressing cross-disciplinary local, national, and international issues through data visualization, predictive modeling, and expert analytics.
- Developed visualizations to analyze land cover degradation around the world for the Conservation International Environmental Foundation.
- **Presented land degradation analysis tool at The McCain Institute in Washington, D.C. (October 2018).**
- Developed a 7-screen dashboard model to enable **Arizona Board of Regents to raise the average Arizona educational attainment to 60%.**

### A.I. and Law at The Sandra Day O' Connor College of Law – Phoenix, AZ

Undergraduate Research Aide

Feb 2018 – Present

- Working in the intersection of artificial intelligence and law. Researching the allocation of fault when autonomous vehicles go awry for a series of white papers. Commencing research on the **integration of artificial intelligence in the practice of law** through legal analytics and other legal tools.

### CYR3CON – Tempe, AZ

Paid Research Intern (ScraperTeam & ML Team)

Aug 2016 – Nov 2017

- Mined proactive cyber-threat intelligence -- specifically, details of malicious software designed to exploit security flaws in financial institutions (e.g. JPMorgan Chase, Bank of America, PayPal, etc) -- from marketplaces, forums, and repositories on the dark web in an effort to prevent and/or minimize the damage of cyber attacks (funded by Department of Defense through CySIS).
- Used Python, HTML, and PostgreSQL.
- **1st place winner of Hamilton Invitational Science and Engineering Fair; 3rd place winner of Arizona Science and Engineering Fair.**

### University of Pittsburgh Cancer Institute – Pittsburgh, PA

Biomedical Informatics Research Intern

Jun 2016 – Aug 2016

- Developed heuristics to automate the extraction of potential drug-drug interaction evidence from the tables of structured product labels. Intensely collaborated with a faculty mentor at the Department of Biomedical Informatics. Used Python, R, and MySQL.
- **Presented University of Pittsburgh Cancer Institute research at the American Medical Informatics Association (AMIA) 2016 Annual Symposium in Chicago.**