

# Shreyas Agrawal

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I'm passionate about leveraging technology for social good. I'm looking to curate ideas, vision a product, and learn to make strategic business decisions, all while meeting consumer needs and expectations

## EDUCATION

- Grinnell College** Iowa, United States  
*Bachelor of Arts - Computer Science and Statistics; GPA: 3.86 (Major: 4.00)*  
*Courses: Human-Computer Interaction, Applied Data Science, Leadership, Entrepreneurship, OOP, Data Structures, Algorithms, OS*  
*Expected Dec 2023*
- Budapest University of Technology and Economics (BME)** Budapest, Hungary  
*Admitted to the Study Abroad Exchange Program AIT-Budapest*  
*Aug 2022 - Dec 2022*  
*Courses: Data Science in Python, Theory of Computing, Applied Cryptography, Budapest Studies, Hungarian Language*

## SKILLS SUMMARY

- Languages:** Python, R, SQL, C, CUDA, Java, C#, Bash, Bubble, HTML, CSS, LaTeX, PHP, Swift
- Tools:** RShiny, Pandas, NumPy, Airtable, Zapier, ArcGIS, Adobe Dreamweaver, Linux, Git, Adobe XD, Figma
- Certifications:** Google Data Analytics, Project Management, iOS Development Basics, Ansible, Accessible Documentation
- Soft Skills:** Leadership, Communication, Problem-Solving, Adaptability, Team Management, Time Management

## EXPERIENCE

- Data Analysis and Social Inquiry Lab** Iowa, United States  
*Data Science Mentor*  
*Jan 2023 - Present*
  - Mentored and provided technical guidance to students and faculty on utilizing Python, R, and ArcGIS to manipulate, analyze, and model data, facilitating assignments, projects, and research initiatives.
- SpaySecure Pet Services** Remote, based in California, United States  
*Technical Development and Operations Intern*  
*Oct 2022 - Present*
  - Successfully implemented a system for automating the identification of new potential clients, utilizing data analysis techniques, Airtable scripts, and Slack integration. This resulted in a 65.8% increase in the number of prospective leads in the sales pipeline, achieved through efficient sales team alerting.
  - Developed an infrastructure for clients and admin to report and track problematic buyers, resulting in a more efficient incident management process, and implemented a permanent database of non-compliant buyers with an alert system to notify clients when attempting to sell to a non-compliant buyer.
- Data Science Research at Grinnell College** Iowa, United States  
*Undergraduate Researcher*  
*June 2022 - Aug 2022*
  - Analyzed data collected through longitudinal surveys with over 600 participants from 5 different universities across the US to test the effectiveness of educational statistics games and make data-driven changes.
  - Rebuilt a data story and games [website](#) to make appropriate changes using HTML, CSS, R Shiny, and PHP
- CLINIS Pvt. Ltd** Kathmandu, Nepal  
*Software Engineering Intern (Full-time during A-levels)*  
*July 2019 - Aug 2019*
  - Built and integrated a server failure alert system using C, Slack API, Quartz, and JSON that improved server troubleshooting, enhanced network support, and scheduled IP address pings for ongoing user support.

## PROJECTS

- Earthquake Modelling - R Shiny App:** Built a web app to answer a research question on Earthquakes using data from USGS consisting of over 142,000 observations. Main packages: shiny, leaflet, geojsonio, dplyr, tidyr, htmltools, plotly, ggplot2.
- Connect 4 - AI Computer Game:** Built a program where a user can play 'Connect 4' with a computer that uses parallel computing implemented in CUDA by utilizing the GPU to analyze every possible board over the next n moves in real-time.
- Eat N Win - Food Waste Reduction Mobile App:** Built and [presented](#) an award-winning mobile application prototype in Adobe XD that helps reduce college food waste. The development of the app itself for Android and iOS is in progress.

## LEADERSHIP EXPERIENCE

- Food Recovery Network — Project Co-Leader** Iowa, United States  
*Project involving 120 members volunteering to recover, repackage, and redistribute food.*  
*Feb 2022 - Present*
- Grinnell College Computer Science Department — Teaching Assistant** Iowa, United States  
*Mentored over 50 students in C and Java programming, facilitating weekly office hours.*  
*Aug 2021 - May 2022*
- GrinTECH for Social Good — Co-Founder and Co-President** Iowa, United States  
*Collaborate to conduct workshops, crash courses, and events impacting over 120 students.*  
*Sep 2020 - Present*

## HONORS AND AWARDS

- Spark Challenge Winner. Received \$6000 in funding to build an app designed to reduce food waste - April, 2022
- Pioneer Weekend Winner. A Pitch and Innovation competition to design solutions for social problems - October, 2021