Shreyas Agrawal

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I'm passionate about leveraging technology for social good. I'm looking to curate ideas, envision products, 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) — *Expected Dec 2023*

Courses: Formal methods in SW Engineering (graduate program), Software Design and Development, Data Structures, Object Oriented Programming, Algorithms, Operating Systems, Human-Computer Interaction, Applied Data Science, Leadership, Entrepreneurship

Budapest University of Technology and Economics (BME) — Budapest, Hungary
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, JavaScript (Next.js, Svelte), R, SQL, C, C#, CUDA, Java, Alloy, UML, Bash, HTML, CSS, PHP
- **Tools:** AWS CDK, Gitlab, Postman, SQLAlchemy, MongoDB, Zapier, Pandas, RShiny, ArcGIS, Figma
- **Certifications:** Google Data Analytics, Project Management, iOS Development Basics, Ansible, Accessible Documentation

EXPERIENCE

Synchron — New York, United States
Software Engineering Intern — *Jun 2023 - Present*
- Designed cloud software architecture documents for a company-wide design inputs review process using the 4+1 architecture model, UML, and Sphinx.
- Designed and implemented a robust user authentication system, leveraging Azure Active Directory as the identity provider for an AWS Cognito user pool to provide secure access for authorized individuals.
- Implemented a cloud backend using AWS CDK (Python) to facilitate interactions with a PostgreSQL database and AWS Cognito via authorized API calls, complemented by a responsive web frontend developed with Next.js.

SpaySecure Pet Services — Remote, based in California, United States
Technical Development and Operations Intern — *Oct 2022 - May 2023*
- Increased prospective leads in the sales pipeline by **65.8%** after implementing a system for automating the identification of new potential clients using data analysis techniques, Airtable scripts, and Slack integration.
- Designed a system for clients and admin to report and track problematic buyers, streamlining incident management and establishing an alert database for non-compliant buyers.

Data Science Research at Grinnell College — Iowa, United States
Undergraduate Researcher — *Jun 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) — *Jul 2019 - Aug 2019*
- Improved server troubleshooting, enhanced network support, and scheduled IP address pings for ongoing user support by building and integrating a server failure alert system using C, Slack API, Quartz, and JSON.

PROJECTS

- **GrinEats - Product Owner and Developer:** Achieved **1000+** downloads on iOS and Android, reaching **85%** of the target audience with an innovative cross-platform mobile application designed to reduce food waste by increasing awareness. The app was designed and developed using a robust tech stack, including React Native, Python, MongoDB, and Expo.
- **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.

LEADERSHIP EXPERIENCE

Data Analysis and Social Inquiry Lab — **Data Science Mentor** — Iowa, United States
Mentored students and faculty in Python, R, and ArcGIS for data analysis and modeling. — *Jan 2023 - May 2023*

Grinnell College Computer Science Department — **Teaching Assistant** — Iowa, United States
*Mentored over **80** 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
*Conducted 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. — *Apr 2022*
- Pioneer Weekend Winner: A Pitch and Innovation competition to design solutions for social problems. — *Oct 2022*