

# Rano Marufova

+1 (667) 319 8112 - [Portfolio](#) - [ranomarufova@gmail.com](mailto:ranomarufova@gmail.com) - [linkedin.com/in/rano-marufova](https://linkedin.com/in/rano-marufova) - [github.com/rano-m](https://github.com/rano-m)

## SUMMARY

Computing generalist with a B.S. in Computer Science and B.A. in Business Management, currently a Data Specialist at Washington College's Center for Environment & Society building user-focused geospatial web applications. Experienced in Python, Databases, React, and GIS.

## EDUCATION

### Washington College

*B.S. in Computer Science & B.A. in Business Management*

**Chestertown, MD, USA**

*Aug 2020 – Dec 2023*

*Minor: Data Science — GPA: 3.8/4.0*

- Graduated *magna cum laude*.
- Senior Thesis: *Bitcoin: Critical Analysis of a Decentralized Monetary System*.

## TECHNICAL SKILLS

**Programming & Scripting:** Python (pandas, scikit-learn, matplotlib), JavaScript/TypeScript (React, Node), PHP (Laravel), Java, SQL, HTML/CSS

**Geospatial:** ArcGIS Pro, ArcGIS Online, ArcPy, QGIS, OpenStreetMap API, geocoding & network analysis

**Web & Cloud:** RESTful APIs, Firebase (Auth, Firestore, Hosting), Google Cloud Functions, Microsoft IIS (ARR & URL Rewrite), Git/GitHub CI

**Visualization & Reporting:** Tableau, Excel (pivot tables, dashboards), interactive web maps, infographic design

**Design:** Figma, Canva, Microsoft PowerPoint

## WORK EXPERIENCE

### Data Specialist

*Washington College CES, Chestertown, MD*

*March 2024 - Present (35h/week)*

- Develop and maintain user-focused web applications, translating complex geospatial datasets into interactive visual experiences to support research and decision-making.
- Lead the integration of GIS tools like ArcGIS Pro and Python libraries to automate workflows, streamline data processing, and improve operational efficiency.
- Collaborate with faculty, staff, and external stakeholders to design innovative mapping solutions that enhance public access to geospatial data.
- Provided training on GIS tools and mentored 9 student interns over a period of 2 years.

### GIS Analyst Intern

*Washington College Geospatial Innovation Program,*

*February 2022 - December 2023*

*Chestertown, MD*

*(15h/week)*

- Processed and analyzed high-volume transportation datasets, including vehicle crash and stop data, using ArcGIS Pro to inform safety initiatives for the Maryland Highway Safety Office.
- Contributed to the design and development of infographics, ensuring clear and accurate visualization of geospatial data for stakeholder presentations.

### Research Assistant

*Toll Fellowship, Washington College*

*May 2023 - July 2023 (40h/week)*

- Applied Machine Learning algorithms (e.g., boosted decision trees) to simulated data from ATLAS at CERN, optimizing background rejection and signal efficiency for Di-Higgs boson research
- Updated and maintained the lab website using HTML, CSS, and JavaScript, ensuring mobile responsiveness for improved user experience.

### Ideaworks Consultant

*Washington College Ideaworks MakersSpace, Chestertown, MD*

*February 2022 – December 2023*

- Helped students with makerspace production workflows such as audio/video capture and editing, 3D printing, and laser cutting.

## **International Student Guide**

*Washington College, Chestertown, MD*

2022, 2023

- Mentored incoming international students during students orientation week, coordinated check-ins, connected students to campus facilities, and organized events.

## **HONORS & AWARDS**

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- Tai Sung An Memorial Prize (2024).
- Libby & Douglass Cater Society Fellowship — received three research grants totaling \$13,000 (2023).
- Washington College Dean's List (2020–2023).
- Omicron Delta Kappa (ODK) Leadership Honor Society (2022).
- William B. Johnson Internship Fund (2022).
- Francis Waters Leadership Scholarship (2021).

## **PRESENTATIONS**

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- Presenter, TuGIS Conference — “Preserving Local Ecosystems Through Collaborative Data Management. (Baltimore, Aug 2025)”
- Presenter, Fall Family Weekend Poster Session — “Classification of Signal and Background in Search for Di-Higgs Boson at the Large Hadron Collider” (Chestertown, Oct 2023).

## **SELECTED PROJECTS**

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**Student Attendance Management App** — Developed for Alpha Tibbiyot Tehnikummi (Uzbekistan); used to manage ~600 students to replace manual attendance tracking and calculations.

**Grants Finding and AI Analysis App** — Interactive app that scrapes grant websites with predefined keyword matching, analyzes the compatibility with the Organization’s Services utilizing Google Vertex AI, gives a compatibility rating, and sends daily reports for new grant findings.

**Chestertown Trees Survey App** — [Link](#) — Developed a data collection and visualization tool for community tree inventories.

**Washington College GIP Website** — [Link](#) — Hub site centralizing projects, maps, and data from the Geospatial Innovation Program.

**GIS Trivia Web App** — [GitHub](#) — [Live](#) — Interactive quiz platform teaching GIS concepts through geospatial questions.

**Kent County Museums Driving Tour Web Map** — [Link](#) — Built a public-facing interactive web map showcasing regional museums.

## **LEADERSHIP & SERVICE**

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**Co-Founder & President, STEM Sisters Club** — Washington College (2022–2023): Organized workshops and networking events to support women in STEM.

**Vice President, Makers Union** — Washington College (2022): Led projects in 3D printing and laser cutting.

**English as a Second Language (ESL) Instructor** — Tashkent, Uzbekistan (2016–2018): Designed curriculum and taught English to classes of 10–12-year-olds; delivered paid instruction to improve students’ speaking and writing skills.

## MEDIA MENTIONS

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*“New Club Creates Safe Space for Women in STEM.”* The Elm, Washington College (Feb 2022) – Featured as Co-Founder & President of STEM Sisters Club. [Link](#)

*“GIP Launches a Tree Survey App for the Town of Chestertown.”* Washington College News (2023) – Highlighted for leading app development at the Geospatial Innovation Program. [Link](#)

## LANGUAGES

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English (fluent) — Uzbek (native) — Russian (fluent)