



# Tyler Howard

## Geological Engineer Intern

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### SUMMARY

Detail-oriented and motivated Computer Science student with hands-on experience in geological modeling and data analysis through academic projects. Proficient in utilizing GIS and Leapfrog software for interpreting complex datasets. Strong analytical skills allow for both autonomous and collaborative work styles, adapting easily to different team dynamics. Motivated to explore innovative solutions within the mining sector while eager to gain meaningful fieldwork experience. Previous project contributions demonstrate solid technical knowledge paired with effective communication abilities, showcasing growth throughout recent experiences.

### EDUCATION

#### Bachelor of Science in Computer Science

University at Albany 🎓 GPA: 3.7 📅 2026 📍 Albany, NY

**Coursework:** Programming, Data Structures, Algorithms, Database Management

### TECHNICAL SKILLS

- **Geological Software:** GIS, Leapfrog, Surfer
- **Programming Languages:** Python, R, SQL
- **Database Systems:** MySQL, PostgreSQL, SQLite
- **Project Management Tools:** Trello, Asana, Monday.com
- **Statistical Tools:** R, Python (Pandas, NumPy)
- **Presentation Software:** PowerPoint, Prezi, Google Slides
- **Collaboration Tools:** Slack, Teams, Zoom
- **Version Control Systems:** Git, GitHub, Bitbucket
- **Data Visualization Tools:** Tableau, Power BI, matplotlib
- **Operating Systems:** Windows, macOS, Linux

### EXPERIENCE

#### Geological Modeling Developer

University Project 📅 January 2026 - Present 📍 Albany, NY

Collaborated on advanced geological modeling initiatives using industry-standard GIS software. Led efforts in mineral resource assessments contributing directly to research objectives.

- Developed geological models employing GIS, greatly enhancing understanding of local mineral deposits for key academic findings.
- Conducted geological mapping and sampling safely, identifying critical resources vital for comprehensive analysis.
- Worked closely within a dynamic team setting to critically assess geological data, producing precise technical reports that informed subsequent discussions.
- Maintained strict adherence to data integrity standards during collection practices throughout all phases of the research.
- Presented project outcomes effectively at university events, recognizing proficiency in delivering high-quality content based on rigorous analysis.
- Fostered valuable interdisciplinary interactions, encouraging knowledge sharing among peers across various fields.

#### Research Assistant

University Research Lab 📅 September 2025 - December 2025 📍 Albany, NY

Supported ongoing geological research, focusing on efficient techniques for resource extraction processes. Involvement bolstered real-world insights into theory application within academic settings.

### STRENGTHS

- **Analytical Skills**  
Applied analytical reasoning to gather insights from geological data, enhancing interpretations greatly for project efficiency.
- **Technical Proficiency**  
Leveraged GIS tools extensively for model creation in geology, accelerating report generation with higher fidelity results.
- **Team Collaboration**  
Facilitated teamwork through open feedback practices during group tasks, becoming a conduit for diverse ideas and innovations.
- **Communication**  
Articulated complex project findings clearly during presentations, elevating awareness and interest in geology-based research topics.
- **Problem-Solving**  
Employed critical thinking methods against obstacles encountered during geological mapping exercises, achieving impactful resolutions.

### SKILLS

GIS   Geological Modeling  
Data Analysis   Team Collaboration  
Technical Reporting  
Project Management  
Drill Monitoring   Mining Exploration  
Operational Geology   Fieldwork  
Geological Mapping

## Report Preparation

Resource Management   Motivation

Interdisciplinary Communication

Data Integrity

## LANGUAGES

English                      Native

Spanish                      Intermediate

## MY CAREER



● Geological Modeling  
Developer at University Project  
(7 Months)

● Research Assistant at  
University Research Lab (3  
Months)

- Contributed to research involving geological data as centralized information facilitated collaboration on resource management strategies.
- Performed analyses adjacent to geological software tools, actively assisting with model development geared towards operational optimization.
- Delivered relevant insights at regular team gatherings, promoting enhanced research methodologies based on active discussion and reflection.
- Prepared foundational research accompaniments for publication to boost dissemination of laboratory accomplishments within academic journals.
- Engaged in practical fieldwork corroborating theoretical frameworks established in prior studies, fostering better real-world connection.
- Authored comprehensive project documentation that resulted in influencing future methodological approaches in ongoing research initiatives.

## LEADERSHIP & AWARDS

- Dean's List, University at Albany, 2025
- First Place, University Hackathon, 2025

## CERTIFICATIONS

- Google Data Analytics Professional Certificate 📅 2025
- GIS Fundamentals Certification 📅 2025

## PROFESSIONAL AFFILIATIONS

- Member, Computer Science Club, University at Albany
- Volunteer Tutor, Peer Mentoring Program, 2025

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST