

Nathaniel Gibbs

Reliability Engineering Intern

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STRENGTHS

-  **Analytical Skills**
Regularly analyze data trends to inform strategic decisions, resulting in impactful recommendations.
-  **Collaboration**
Works well in teams, exchanging ideas openly and driving shared goals forward successfully.
-  **Problem-Solving**
Approaches challenges creatively, identifying solutions that meet complex needs efficiently.
-  **Communication**
Ability to convey technical information clearly and persuasively during presentations and discussions.
-  **Adaptability**
Thrives in dynamic environments, adjusting strategies based on evolving project demands seamlessly.

SKILLS

- Python SQL Tableau
- Microsoft Excel Data Analysis
- Reliability Engineering
- Statistical Analysis
- Team Collaboration Quality Control
- Data Reporting Automation
- Product Lifecycle Management
- Visual Data Representation
- Process Improvement
- Research Methodology
- User Testing

SUMMARY

Current undergraduate student pursuing a Bachelor's degree in Reliability Engineering offers practical experience with data analysis and product reliability projects. Hands-on skills in Python, SQL, and Microsoft Excel empower commitment to enhancing reporting processes and improving product quality. Contributed to team initiatives that drive business decisions and foster customer satisfaction. Eager to collaborate within a strong engineering team and continually advance data science applications for improved operational efficiencies.

EDUCATION

Bachelor of Science in Reliability Engineering
Georgia Institute of Technology  GPA: 3.8  2027  Atlanta, GA
Coursework: Data Analysis, Quality Control, Statistics, Reliability Testing

TECHNICAL SKILLS

- Data Visualization Tools:** Tableau
- Programming Languages:** Python, SQL
- Microsoft Office Tools:** Excel, PowerPoint, Word
- Statistics Software:** R, SAS, SPSS
- Project Management Methodologies:** Agile, SCRUM
- Quality Assessment Tools:** Six Sigma, FMEA, SPC
- Reliability Engineering Standards:** ISO 9001, Mil-Std-785
- Database Management Systems:** MySQL, SQLite, PostgreSQL
- Technical Documentation Methods:** Markdown, LaTeX
- Enhancement Techniques:** Root Cause Analysis, Process Mapping

EXPERIENCE

Reliability Engineering Project

University Project  January 2026 - Present  Marietta, GA

Focused on analyzing historical data to improve product reliability while streamlining report automation efforts. Worked collaboratively with professors and students to ensure compliance and maintain high standards throughout the project.

- Conducted analysis of historical product failure data to calculate mean time between failures, providing insights on product reliability.
- Developed automated reporting processes using Python and Excel, increasing data accessibility for stakeholders by 40%.
- Collaborated with students to assess electronic component reliability, presenting findings to faculty and peers effectively.
- Utilized Tableau to create visual reports that illuminated trends in product performance, aiding issue recognition significantly.
- Engaged in quality control assessments and delivered recommendations that contributed to a 15% reduction in product defects.
- Partnered closely with faculty advisors to align project outcomes with industry standards and best practices.

Data Science and Reliability Analysis

Academic Research  September 2025 - December 2025  Marietta, GA

Engaged in research focusing on applying statistical methods to enhance product lifecycle management data-driven decisions through operational analysis.

- Analyzed operational data using SQL to identify trends and inform data-backed decisions in product development.
- Presented research findings at a university symposium, gathering positive feedback for clarity and impactful insights.

LANGUAGES

English	Native
Spanish	Proficient

MY CAREER



- Reliability Engineering Project at University Project (7 Months)
- Data Science and Reliability Analysis at Academic Research (3 Months)

- Developed data visualization skills using Tableau, showcasing reliability improvement implications in real-time.
- Supported writing a research paper addressing the critical role of reliability engineering in product design submitted for publication.
- Conducted literature reviews that enhanced understanding of current reliability practices integral to ongoing research.
- Collaborated with group members to analyze complex datasets and deliver cohesive presentations.

Data Reliability Improvement Initiative

Hackathon Project 📅 March 2026 📍 Marietta, GA

Contributed innovative solutions during a fast-paced hackathon focused on tackling manufacturing reliability challenges through teamwork and problem-solving.

- Designed a prototype for an automated monitoring system using Python, which significantly streamlined data collection methodologies.
- Performed user testing with potential stakeholders, gathering valuable feedback for iterative refinement.
- Composed comprehensive documentation outlining project methodologies and applications to communicate effectively the project's scope.
- Showcased final project to industry professionals, receiving accolades for creative approaches addressing reliability concerns.
- Expanded professional network through meaningful dialogues and presentations, establishing important industry connections.
- Refined teamwork and communication skills by overcoming diverse technical hurdles collectively with peers.

LEADERSHIP & AWARDS

- Dean's List, Georgia Institute of Technology - Fall 2025, Spring 2026

CERTIFICATIONS

- Google Data Analytics Certificate 📅 2026
- Python Programming Certificate 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Reliability Engineering Society, Georgia Institute of Technology
- Participant, Annual Data Science Conference

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST