

Nathaniel Gibbs

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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

2027

Georgia Institute of Technology GPA: 3.8

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

SKILLS

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

EXPERIENCE

Reliability Engineering Project

January 2026 - Present

University Project

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

September 2025 - December 2025

Academic Research

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.
- 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

March 2026

Hackathon Project

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST