Grant Sackmann

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EDUCATION

Grinnell College — **May 2027**
Computer Science & Economics — *Grinnell, IA*
- Girls Who Code Lead, Wilson Center Entrepreneur, Habesha Student org Treasurer. — 3.96 GPA
- Functional, Procedural and Object-Oriented Programming, Data Science, Physics, Economics

South Carolina Governor's School for Science and Mathematics — **May 2023**
High School Diploma
- DataStruc & Algo, Artificial Intelligence, C++, Linear Algebra

EXPERIENCE

MIT Beaver Works Summer Institute — **Summer 2022**
Quantum Software Engineer
- Designed and implemented a Quantum Classifier, achieving 91% accuracy in predicting heart failure.
- Collaborated on fully remote development using Python, IBM Qiskit, and GitHub Version Control

Skukuza Organization for Tropical Studies — **Spring 2024**
SSLI Researcher in Kruger National Park
- Investigated land-use impacts through analysis of 5 ectoparasite genera among 7 rodent species across 3 different research sites.
- Presented findings from 100+ samples using R Studio, identifying key factors influencing ectoparasite prevalence across different land-use gradients.

Wilson Center Catalyst — **Spring 2024**
Entrepreneur.
- Developed and prototyped an intelligent toilet valve, targeting a reduction of the 1 trillion gallons in annual global water loss.
- Secured $1,500 in seed funding through the delivery of a compelling pitch to live W.C. incubator panel, enabling prototype development and initiation of patent process.

NASA Drop Tower — **Spring 2023**
Diver Challenge Participant
- Engineered a microgravity diving device responsive to water contact interface, overcoming environmental challenges in zero-gravity fluid dynamics.
- Fabricated hydrophilic coating, producing an 82% reduction in surface contact angle.

SKILLS/CERTIFICATIONS

C, Python, Java, Lisp, R, SQL, HTML, CSS, Bootstrap, GitHub, Maven, JUnit Testing, Jupyter Notebook, Microsoft Suite, CAD, LabQuest, ArcGIS Pro, Vernier tools, surface coating fabrication, English, and Spanish.

BWSI Python Core (MIT 2022) and Version Control: Git & Github (MIT 2022)