William C. Gillette

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PROFESSIONAL SUMMARY

Highly motivated problem solver with excellent communication skills triple majoring in Computer Science, Statistics, and Math (3.99 GPA) seeking an internship. Eager to apply and grow my statistical/data analysis and technical skills with Python, Java, web development and software engineering to develop intuitive applications and automated analyses for your company. Proven ability to manage multiple priorities and time successfully as a year-round student athlete. Recognized by leaders as driven and responsible through nominations for leadership positions and described by peers as a mentor and "go to" resource.

SKILLS

- Python, JavaScript/Java, Data Structures, SQLite/DB Integration
- Web Development: HTML, CSS, React, Node.js, Webservices (SOAP, REST)
- Software Testing, Debugging, Documenting (Code, End User)
- Statistical Analysis, Data Analysis, Linear and Multiple Regression analyses
- System Development: Requirements, System Analysis, System and Software Design
- Calculus (I-IV), Linear Algebra, Abstract Algebra
- Google Data Analytics, Object Oriented Programming (OOP), SAS, Lua, C++
- Project Management: Scrum Master, Agile, Systems Development Life Cycle (SDLC)
- Leadership, Team Management, Collaboration, Teamwork

EDUCATION

Bachelor of Science (B.S.): Triple Major: Computer Science, Statistics, Math
Ursinus College, Collegeville, PA, May 2025

Computer Science (Specialization in Software Engineering): Database Design, Software Engineering, Computer Architecture & Organization, Computer Graphics, Data Structures & Algorithms, Object Oriented Programming (OOP), Theory of Computation, Python
Mathematics (Specialization in Business & Industry): Linear Algebra, Calculus I-IV, Discrete Math, Abstract Algebra, Real/Numerical Analysis
Statistics: Applied Regression Models, Computational Statistics, R Lab, Math Statistics, Statistics I and II

Certifications: Computer Science and Data Analytics
University of Michigan - Coursera, Jun 2023
2020-2023 - Self-Initiated Study earning 16 Certifications (in Skills section)

INDEPENDENT RESEARCH AND PROJECT PORTFOLIO

2023 - Degree Builder for Ursinus College Students – https://github.com/wigillette/GatewayRevamp - Scrum Master and contributor leading team which developed a user-friendly tool to fulfill students' need for an intuitive, comprehensive college career and academic planner. Approach: Planned, built and executed a Javascript web application. Employed Agile and SDLC to manage project through all phases (requirements gathering, key documentation, user acceptance testing (UAT), debugging and training). Skills/Technologies: Reactstrap · Node.js · CSS · SQLite · HTML · React.js · Redux.js · Express.js
2023 - Validity of SAT Score as a Predictor of College Success: Relevancy and Value in College Admissions Decisions - Conducted statistical analyses to answer three research questions. Wrote a 30-page research paper with analyses and findings. Provided paper to professor to support her research on this topic.
Skills/Technologies: Data Analytics, Linear and Multiple Regression Analyses, Chi-Squared Analysis, Python, R

2022 - A Data-Driven Approach to Structure-Based Large Scale Audio Version Identification - https://github.com/ctralie/acoss - Tackled music information retrieval problem of automatic audio version identification. Approach: Utilized machine learning to transform datasets of songs into “self-similarity matrices. Performed various supervised and unsupervised experiments to determine which cover song identification strategies are most accurate and scalable. Skills/Technologies: PyTorch · Machine Learning · Python
2021 - Convex Hull Visualization - https://wg-convex-hull.glitch.me/ **-** Enabled the automated generation of 2D or 3D convex hulls from a set of 2D points. Practical applications include collision avoidance of particles, traffic, etc. Approach: Developed web-based modeling application to convert points by applying a “geometric lift” using a convex function. Skills/Technologies: JavaScript · Node.js · CSS · HTML · Express.js

EXPERIENCE

Lead Tutor: Computer Science/Math/Statistics
URSINUS COLLEGE, Institute for Student Success, 2021 - Current
Promoted to Lead Tutor - Sep 2022 - Recognized for leadership and effectiveness as tutor. Onboarded and mentored new tutors; Evolved the program by providing enhancement insights to manager.
Tutor- Developed strategies and adapted teaching individual needs/learning styles. Provided tutee evaluations.

Student Representative, Computer Science Principles Professional Training
Code.org, 2023 - 2023
Provided input in workshops for high school computer science teachers. Partnered to develop and deliver lesson on routers and redundancy.

Peer Academic Coach; Peer Mentor
URSINUS COLLEGE, 2021 - 2022
Enhanced students' executive functioning. Taught strategies for studying, note-taking, and time management. Accelerated students' integration into the college community and enhanced their support network.

LEADERSHIP POSITIONS

- President, Upsilon Pi Epsilon (International Computing Honor Society)
- Vice President (2022-2023), Treasurer (2020-2021), Ursinus Computer Science & Robotics Club
- Academic Chair, Historian, and Parliamentarian, Phi Kappa Sigma International Fraternity
- Graduate, Phi Kappa Sigma Men of Honor Leadership Institute

AWARDS AND HONORS

- Upsilon Pi Epsilon International Honor Society for Computing
- Kappa Mu Epsilon National Mathematics Honor Society
- Mathematics and Computer Science Faculty Prize for Promising Sophomore
- Phi Kappa Sigma Hezman Award for Exemplifying the Seven Core Values of the Fraternity
- Centennial Conference Student Athlete Academic Honor Roll / Dean's List

EXTRACURRICULAR ACTIVITIES

Division III Cross Country/Track & Field; Phi Kappa Sigma International Fraternity; Computer Science & Robotics; Hispanic Alliance for Career Enhancement (HACE)