

William C. Gillette

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Professional Summary

Highly motivated problem solver with excellent communication skills. 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. Proven ability to manage time and multiple priorities as a year-round student athlete. Recognized by leaders as driven and responsible by selection to leadership positions. Described by peers as a mentor and “go-to” resource.

Education

Ursinus College, Collegeville PA | Recipient of Ursinus Gateway Scholarship

BS, triple major: Computer Science | Statistics | Math

GPA: 3.99

ANTICIPATED MAY 2025

University of Michigan - Coursera

Dec 2020-Jun 2023

Computer Science and Data Analytics, self-initiated study earning 16 certifications

Skills

Programming Lang/Web Dev: Python, JavaScript, Java, SQLite, SAS, HTML, CSS, React.js, Node.js, Lua, C++, R

System: Data Structures, DB Integration, OOP, Webservices (SOAP, REST), Redux.js, Express.js, PyTorch, Reactstrap, Visual Studio

Analysis: Statistical, Data, Linear and Multiple Regression, Google Data Analytics, Calculus (I-IV), Linear Algebra, Abstract Algebra

System Dev: Requirements, System Analysis, System/Software Design, Testing, Debugging, Documenting (Code, End User)

Project Management: Agile Methodology, Scrum Master, System Development Life Cycle (SDLC)

Other: Leadership, Team Management, Collaboration, Teamwork, Communication (Oral, Written, Presentation), Time Management

Independent Research and Projects

- [Degree Builder for Ursinus College Students](#) Jan 2023-May 2023
 - Scrum Master, developed a user-friendly tool to fulfill students' need for an intuitive, comprehensive college career and academic planner
 - 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
- Validity of SAT Score as a Predictor of College Success Jan 2023-May 2023
 - Conducted statistical analyses in 30-page research paper, and provided to professor to support her research
 - *Skills/Technologies:* Data Analytics, Linear and Multiple Regression Analyses, Chi-Squared Analysis, Python, R
- [A Data-Driven Approach to Structure-Based Large Scale Audio Version Identification](#) Jan 2022-May 2022
 - Tackled music information retrieval problem of automatic audio version identification
 - Utilized machine learning to transform datasets of songs into “self-similarity matrices”
 - Performed supervised & unsupervised experiments to find most accurate, scalable cover song identification strategies
 - *Skills/Technologies:* PyTorch · Machine Learning · Python
- [Convex Hull Visualization](#) (Practical applications: collision avoidance of particles, traffic, etc.) Apr 2021-May 2021
 - Enabled the automated generation of 2D or 3D convex hulls from a set of 2D points
 - Developed web-based modeling application to convert points by applying “geometric lift” using a convex function
 - *Skills/Technologies:* JavaScript · Node.js · CSS · HTML · Express.js

Experience

- Lead Tutor, Computer Science | Math | Statistics, Ursinus College Sep 2021-present
 - Onboarded and mentored new tutors; Evolved program by providing enhancement insights to manager
 - Developed strategies and adapted teaching to meet individual needs/learning style
 - Evaluated tutees and provided assessment to professors
- Student Representative, Computer Science Principles Professional Training, Code.org Aug 2022-May 2023
 - Delivered input in workshops for high school computer science teachers
 - Partnered to develop and deliver lesson on routers and redundancy

Relevant Coursework

Computer Science (focus of Software Engineering): Database Design, Software Engineering, Object Oriented Programming (OOP), Computer Architecture & Organization, Computer Graphics, Data Structures & Algorithms, Theory of Computation, Python

Mathematics (focus of 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

Awards and Honors

- Upsilon Pi Epsilon International Honor Society for Computing (2023) – elected President by Computer Science faculty

- Kappa Mu Epsilon National Mathematics Honor Society (2023)
- Mathematics and Computer Science Faculty Prize for Promising Sophomore (2022)
- Phi Kappa Sigma Heznan Award (2022) – Exemplifying 7 Core Values of the Fraternity
- Centennial Conference Student Athlete Academic Honor Roll / Dean's List (2022)

Community Service, Extracurriculars, and Leadership

- President, Upsilon Pi Epsilon International Honor Society for Computing (2023-present)
- Vice President (2022-present) & Treasurer (2020-21), Computer Science & Robotics Club
- Graduate, Phi Kappa Sigma Men of Honor Leadership Institute (2021-22)
- Academic Chair (2021-present), Historian (2021), & Parliamentarian (2021), Phi Kappa Sigma International Fraternity
- Leukemia & Lymphoma Society, American Foundation for Suicide Prevention, Special Olympics – fundraising, event support
- Division III Cross Country, Division III Track & Field
- Hispanic Alliance for Career Enhancement (HACE)