

William C. Gillette

908-300-0673 | wgillette02@gmail.com | github.com/wgillette | [linkedin.com/in/williamcgillette](https://www.linkedin.com/in/williamcgillette) | <https://www.williamcgillette.com/>

Professional Summary

Highly motivated problem solver with excellent communication skills. Eager to apply and grow my statistical/data analysis and technical skills with Python, R, 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 and described by peers as a mentor and “go-to” resource.

Education

Ursinus College, Collegeville, PA

BS, triple major: Computer Science | Statistics | Mathematics

Recipient of Ursinus Gateway Scholarship

GPA: 3.99/4.0

Anticipated Dec 2024

Coursera – University of Michigan, Google Data Analytics, University of Hong Kong

Self-initiated study in React, R, and Python, earning 16 certifications

Dec 2020-Jun 2023

Skills

- **Data Management:** Python, SAS, SQL, Excel, RStudio, Jupyter, Visual Studio, Regression Analysis, Machine Learning
- **App Dev:** Java, HTML, CSS, JavaScript, Node.js, React, Bootstrap, Responsive Design, Debugging, Webservices (REST), OOP
- **Project Management:** Agile, Scrum, SDLC, Requirements, User Acceptance Testing, Documentation (Code, End User)

Experience

Data Analyst Intern, Computer Aid Inc. (CAI)

Jun 2024-Aug 2024

- Collected data, analyzed patterns and trends, and presented data-driven insights and conclusions to team members
- Collaborated with other interns on a community outreach project to help the organization make more informed decisions and proactively improve the overall customer experience

Lead Tutor, Computer Science | Mathematics | Statistics

Sep 2021-May 2024

- Onboarded and mentored new tutors; Evolved program by providing enhancement insights to manager
- Developed strategies and adapted teaching to meet individual needs/learning style, evaluating 40+ tutees and providing assessments to professors

Independent Research and Projects

Ursinus College Degree Builder

(React/Redux · SQL · Node.js · Bootstrap)

Jan 2023-May 2023

- Scrum Master: employed Agile and SDLC to manage project (requirements gathering, key documentation, user acceptance testing, debugging), led weekly standup meetings to evaluate Gantt chart progress
- Planned, built, and executed a React web application, developing a user-friendly tool to fulfill students' need for an intuitive, comprehensive academic planner

Validity of SAT as Predictor of College Success

(Regression · Data Analytics · RStudio)

Mar 2023-May 2023

- Conducted statistical analysis, wrote 30-page research paper to support professor's doctoral research
- Cleaned and drew insights from data containing college students' high school GPA, first year GPA, and SAT scores

Large Scale Audio Version Identification

(PyTorch · Numpy · Machine Learning)

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

Convex Hull Visualization

(HTML · CSS · Javascript · Node.js)

Apr 2021-May 2021

- Enabled automated generation of 2D or 3D convex hulls from a set of 2D points
- Developed web application to apply “geometric lift” to 2D points through a convex function

Awards and Honors

- Best Data Visualization, DataFest Philly (2024) – voted upon by three American Statistical Association staff members
- Faculty Prize in Mathematics (2024), Faculty Prize for Promising Sophomore in Computer Science (2022)
- NCAA Division III Metro Region Cross-Country All-Academic Award (2023)
- Upsilon Pi Epsilon International Honor Society for Computing (2023) – elected President by Computer Science faculty
- Kappa Mu Epsilon National Mathematics Honor Society (2023)

Community Service, Extracurriculars, and Leadership

- Academic Chair (2021-2023), Historian (2021), Parliamentarian (2021), Phi Kappa Sigma International Fraternity
- Division III Cross Country and Track & Field
- Hispanic Alliance for Career Enhancement (HACE)
- Vice President (2022-2024) & Treasurer (2020-21), Computer Science & Robotics Club
- Two-time Graduate, Phi Kappa Sigma Men of Honor Leadership Institute (2022-2023)
- Leukemia & Lymphoma Society, American Foundation for Suicide Prevention, Special Olympics – fundraising, event support