Grace Williams | gracecwilliams2004@gmail.com | (850)-375-8629 |
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EDUCATION

Harvey Mudd College, Greater Los Angeles, CA
B.S., Computer Science & Mathematics | Minor, Data Science **— Expected May 2027**

EXPERIENCE

Develop for Good | Remote **Oct 2025 – Feb 2026**
Technical Product Manager | JavaScript, Agile Methodologies, HTML/CSS, SQL, Figma, Notion

- Selected for competitive winter internship program to lead website development for a nonprofit client.
- Led a cross-functional frontend and backend team, drove product vision, feature prioritization, and UX design while overseeing full-stack development.
- Owned technical documentation, team organization, and strategic decision-making, establishing workflows and a collaborative team culture that ensured timely delivery and high-quality results.

University of Louisville, Dept. of Psychological & Brain Sciences | Louisville, KY **Jun 2025 – Present**
Data Science Intern + Researcher | R, Python (pandas, numpy), Machine Learning, Regression Analysis

- Analyzed, cleaned, and migrated large-scale research data into National Institutes of Health (NIH) database as part of $11.5M federally funded study. Carried out machine learning project utilizing clinical data, predicting specific mental disorders.

AI4ALL Ignite Accelerator | Remote **Sept 2025 – Nov 2025**
AI & ML Developer | Multi-Modal AI Model, NLP, Computer Vision, Prediction, NLP, Bias Mitigation

- Completed competitive 10-week AI program in Data Science and Technical Project Management, developing a multi-modal AI solution that leveraged NLP and Computer Vision (biopsy/imaging analysis) to accelerate the diagnosis of digestive autoimmune diseases, while ensuring ethical delivery through Model Bias Mitigation (Sample, Prevalence, Labeling).

Fidelity Investments | Covington, KY **Jun 2025 – Aug 2025**
Operations Intern | Project Management, PowerBI, Python, Snowflake, SQL, Microsoft Office Suite

- Engineered a Python parsing program that reduced the data analysis time for client information retrieval by over 50%, enhancing operational efficiency.
- Spearheaded 5+ data analytics and project management initiatives across 4 Workplace Investing product areas, utilizing Power BI to develop and improve dashboards for tracking key organizational efficiency metrics.
- Conducted comprehensive data analytics presentations on annual sales trends based on client insights and built critical internal relationships, ensuring successful, deadline-driven project management and client satisfaction.

University of Maryland (UMD) | College Park, MD **Oct 2023 - Oct 2023**
UI UX Designer & Developer | Devpost, node.js, firebase

- Designed virtual assistant application compatible with Amazon's Alexa device for non-native English language learners to utilize conversational AI to enhance their English pronunciations, learn figurative speech patterns, and more: https://devpost.com/software/speak-up-jwh7li

STEM Non-profit Founder, Making Engineers **Jun 2021 – Jul 2023**

- Collaborated with National Academy of Engineering + Launched program introducing engineering to 50+ middle school girls of underrepresented demographics through hands-on projects + industry-level mentorship.
- Developed bi-monthly curriculum and organized annual, week-long summer camp.
  News feature: https://www.makingengineers.me/media

SKILLS

Artificial Intelligence: Machine Learning · Model Training & Optimization · Data Mining · Prompt Engineering

Quantitative & Analytical: Mathematical Modeling · Real Analysis · Differential Equations · Bayesian Statistics

Project Management: Cross-Functional Team Leadership · End-End Project Delivery · Technical Documentation

Data Science: Statistical Analysis · EDA · ANOVA · Hypothesis Testing · Data Visualization · Dashboard Design

Languages: Python · R · C++ · Java · JavaScript · HTML · CSS · SQL · Markdown · SVG · Prolog · Racket

Tools: PowerBI · Snowflake · D3.js · Observable · VS Code · GitHub · Jupyter Notebook · Google Colab

Academic/Personal Projects:

Applied Statistics Analysis of Mental Health and Demographic Factors **Mar 2025-May 2025**

- Analyzed CDC BRFSS survey data (n = 178,179) to investigate correlations between mental health outcomes and demographic factors using ANOVA, chi-squared tests, and logistic regression. Identified employment and marital status as significant predictors of poor mental health. Found females were twice as likely to be diagnosed with depression as males.

C++ Simulation for Transport Optimization **Mar 2025-April 2025**

- Developed C++ simulation for package transport system that dynamically manages arrays of packages on the heap and implements train resizing protocols based on load. Applied memory management practices with new/delete keywords. Debugged memory leaks/errors using Valgrind.

Bayesian Text Modeling **Nov 2023-Dec 2023**

- Successfully distinguished between poetic and lyrical writing using similar text types - two known (training) texts and two unknown texts using probabilistic frameworks, Python, and LLM foundations.