

HENRY MALLON

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- ▶ Results-oriented contributor with a diverse background spanning computer science and cognitive neuroscience.
- ▶ Proven track record improving operational efficiency through strategic planning and data-driven insights.
- ▶ Adaptable professional with strong technical skills in computer science, committed to continuous learning and development.


Strengths & Expertise: Computer Science Foundations • Big Data Analytics • Technical Communication
Interpersonal Skills • Innovation and Problem-Solving • Adaptability and Flexibility
Continuous Learning and Development

Technical Skills: Excel • SQL • Python • Java • C • MATLAB • Neural Networks (PyTorch) • Computer Vision
Algorithms • Computational Neuroscience & Bayesian Modeling • R • Kotlin & Android
Development • Web Development (HTML/CSS, JavaScript, jQuery, Python & Flask, Web
Forms, Databases & SQL, TLS/SSL & Certificates, User Authentication, JQuery & Ajax)


EXPERIENCE

-  **AVALON COLLEGE ADVISING** Menlo Park, CA (remote)
Essay Reviewer & Coach Sep. 2023 – Feb. 2024
Web Designer/Developer
- **Project Management:** Managed college application essays across dozens of schools and students.
 - **Communication:** Provided ongoing personalized feedback to high school students applying to top-level colleges.
 - **Data Analysis:** Conducted competitive analysis, developed a comprehensive strategy for brand engagement, and implemented a fully functional and modern company website, which was well-received by the owner and team.




EDUCATION

-  **UNIVERSITY OF ROCHESTER** Rochester, NY
Bachelor of Science in Brain & Cognitive Sciences
Bachelor of Arts in Computer Science Aug 2019 – May 2023
GPA: 3.75/4.0
- Minors: **Psychology, Philosophy**

PUBLICATIONS

-  2023 IEEE INTERNATIONAL CONFERENCE ON BIG DATA (BIGDATA) Sorrento, Italy
IEEE Xplore: <https://ieeexplore.ieee.org/document/10386096> December 2023
Investigating the Effectiveness of Deep Learning and CFA Interpolation Based Classifiers on Identifying AIGC
- **Artificial Intelligence, Deep Learning, & Computer Vision:** Developed novel methods for detecting photorealistic AI-generated images. Compared the results of classifiers using color filter array (CFA) interpolation to CNN classifiers (InceptionV3, DenseNet121, ResNet50). Evaluated performance on diverse and sparse datasets, achieving higher than human levels of accuracy (86.1%) with CNN classifiers and moderate performance with CFA classifiers (73.55%), without extensive training or other deep learning methods.

UNIVERSITY ENGAGEMENT

-  **COLLEGIATE CATEGORY A MOUNTAIN BIKE RACING**
Team Management, Optimization, & Communication: Contributed to team management and applied effective optimization and process improvement strategies, leading our small team to a remarkable third-place conference finish.
-  **COMPETITIVE JUGGLING**
Financial Planning: Juggling club executive board member with responsibility for tracking and initiating all organization expenditures and income.
Skills & Accomplishments: Competed in prestigious international events in Indiana, Quebec, and Texas for 7-ball, 5-ring, and 5-club juggling.
-  **RUBIK'S CUBE**
Leadership, Continuous Learning & Development: Established a community for Rubik's cube enthusiasts, fostering a passion for problem-solving and intellectual challenges.