

# Nishad Wajge

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## TECHNICAL SKILLS

- **Languages:** Python, Java, C, R (RStudio), SQL (Postgres), Unix, Bash, x86, OCaml, Rust, MatLab
- **Frameworks:** PyTorch, TensorFlow, Seaborn, Scikit-learn, JUnit
- **Developer Tools:** IBM Rational Team Concert, Docker, Jenkins, Apache Maven, Git, Figma, Excel

## EDUCATION

**University of Maryland – College Park**

**Aug 2023 – Dec 2026**

*BS Computer Science (Machine Learning) and Statistics*

*College Park, MD*

- **Coursework:** Algorithms, Organization of Programming Languages, Data Science, Discrete Structures, Computer Systems, Object-Oriented Programming, Applied Probability and Statistics 1 & 2, Calculus 3, Linear Algebra

## EXPERIENCE

**Booz Allen Hamilton**

**Sep 2024 – Present**

*Technical Project Manager*

*McLean, VA*

- Led cross-functional teams (Frontend, Backend, UI/UX) to develop a policy auditing software for Medicaid and CHIP
- Designed a **Postgres** database with parametrized queries for **SQLi prevention** to store **10+** years of policies and keys
- Developed backend **REST API** monitoring in **Express.js** and keyword generation tool using **Meta's BART** and **GLiNER**
- Met weekly with CTO and lead engineer to review progress, align on deliverables, and ensure achievement of **KPIs**

**Internal Revenue Service, U.S. Department of the Treasury**

**Jan 2024 – Present**

*Software Engineer Intern*

*Washington, DC*

- Modernized key **Post-ETL** fraud detection processes in **IBM RTC** at the Division of IT's **Return Review Program**
- Deployed division-wide **Jenkins CI/CD pipeline** upgrade from **JDK 11** to **17** with **100%** coverage in **Maven** for QA testing
- Gained experience in **Agile** environment with monthly **Sprints** and daily **DevOps** meetings to maintain stakeholder relations

## RESEARCH

**Institute for Advanced Computer Studies, University of Maryland**

**Oct 2023 – May 2024**

*Machine Learning Researcher*

*College Park, MD*

- Contributed to **Easy2Hard-Bench**, a collection of **6** benchmark datasets with standardized difficulty labels for LLM evaluation
- Performed tests across various domains, such as mathematics and programming, chess puzzles, and reasoning questions
- Estimated problem difficulty using human and LLM performance data, applying **IRT** and **Glicko-2** models for uniform scoring

**HEC Lausanne**

**Jan 2021 – Aug 2023**

*Game Theory Researcher*

*Remote*

- Engineered a game theory-inspired, **reinforcement learning** decision-making algorithm to optimize playing strategies in golf
- Constructed a novel **Markov Decision Process** framework in **Python** for 2-player, turn-based stochastic shortest path problems
- Analyzed in **RStudio** and **Excel (Pivot Table, VLookup)** from proprietary **PGA ShotLink** containing **600K+** datapoints

**ASDRP**

**May 2022 – Apr 2023**

*Researcher*

*Fremont, CA*

- Created a regression model (**KNN Classifier**, **F1-Score**, **Random Forest**) to analyze **10K+** hospital triaging patient database
- Leveraged classification task in **TensorFlow** and **Seaborn** with **SHAP Values** to find correlations with **75%** accuracy

## PUBLICATIONS

- N Wajge, G Stauffer. *Computational Statistics (Special Issue: Sports Data Science)*. 2025
- N Wajge, F Huang. *Neural Information Processing Systems (NeurIPS) Conference*. 2024
- N Wajge, K Hill. *International Journal of High School Research*. 6, 5: 93-97, 2024
- N Wajge, G Stauffer. Shortlisted at *MIT Sloan Sports Analytics Conference*. 2024
- N Wajge, P Mui. *Annals of Biomedical Science and Engineering*. 7: 24-30, 2023
- N Wajge, G Stauffer. *Institute for Operations Research and Management Sciences (INFORMS) Conference*. 2022
- N Wajge, P Mui. *Stanford School of Medicine JUST Health Journal*. 5: 13-16, 2022

## LEADERSHIP

**Club Golf**

**Jan 2024 – Present**

*President & Social Chair*

*College Park, MD*

- Oversaw team practices, tournaments, and fundraising events to maintain consistent schedule and participation
- Coordinated with other clubs to host events and socials and act as a liaison for alumni and prospective club members