Laith Tahboub

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EDUCATION

- **University of Maryland, College Park** — College Park, MD
  B.S. in Computer Science, Minor in Mathematics; GPA: 3.61, Dept. Honors, Dean's List — *Dec. 2026*
    Relevant Courses: Machine Learning, Natural Language Processing, Algorithms, Data Science, Programming Languages, Computer Systems, Discrete Structures, Object-Oriented Programming, Linear Algebra, Number Theory

SKILLS

- **Languages**: Python, C, Java, C++, OCaml, SQL, HTML/CSS, JavaScript, LaTeX
- **Tools**: PyTorch, GCP, Git, Pandas, NumPy, LangGraph, Google ADK, PostgreSQL, Django, AWS, Spark

EXPERIENCE

- **Incorta** — SF Bay Area, CA
  Machine Learning Engineer Intern — *July 2025 – Oct. 2025*
    - Created a new sub-agent for the company's AI data assistant (Incorta Copilot) using Google ADK and Agentspace. 50,000+ employees from Broadcom, Starbucks, Comcast, and more use this AI agent daily.
    - Architected an automated benchmarking framework for Incorta Copilot, now used by 30+ salespeople in 1,000+ customer demos yearly. Tool training integrated into company-wide sales curriculum.
    - Engineered a high-accuracy employee resignation prediction model for the Saudi Stock Exchange (12th largest globally) using gradient boosting, achieving 0.94 ROC-AUC and 0.90 F1-score.
    - Developed explainable anomaly detection methods; presented to 50+ engineers and executives. Recognized by leadership and integrated into Copilot, used by Fortune 500 companies managing billions in revenue.

- **University of Maryland** — College Park, MD
  Teaching Assistant — CMSC 250 Discrete Structures — *Sept. 2025 – Present*
    - Lead weekly discussion sessions for 32 students covering topics such as mathematical proof techniques, logic, set theory, graph theory, and combinatorics, resulting in improved student comprehension and scores.
    - Grade assignments and exams for 220+ students, providing detailed feedback on mathematical reasoning and proof writing while maintaining consistent evaluation standards across multiple TA sections.
    - Hold regular office hours to provide individualized support for challenging concepts (e.g. induction, inference, number theory) helping students develop mathematical maturity for advanced CS coursework.

  Research Assistant — Professor Mohammed Nayeem Teli's NLP Lab — *Dec. 2024 – June 2025*
    - Led a cross-functional team of 5 undergraduate researchers in building an evaluation pipeline for LLM alignment to normative text corpora, coordinating experiments and managing HPC workflows.
    - Created a novel evaluation method generating 100K+ QA pairs from philosophical, legal, and religious texts to benchmark top LLMs (GPT-4, Claude, Llama 3) using PyTorch, HuggingFace, PEFT, and SLURM.
    - Discovered that top LLMs are consistently more factually aligned than morally aligned, with results forming the basis of a planned NAACL 2026 publication.

- **U.S. News and World Report** — Remote Contract via UMD App Dev
  Data and Backend Engineer — *Sept 2024 – Jan 2025*
    - Selected from a competitive pool of candidates to develop and deploy an internal tool that visualizes and organizes API data, supporting the company's quality assurance workflows.
    - Collaborated directly with U.S. News engineers to create the backend using FastAPI and integrated Scikit-learn anomaly detection with a KNN model, ensuring scalable performance and robust data analysis.
    - Delivered a production-ready platform now used daily by the U.S. News QA team to validate datasets, improving anomaly detection efficiency and reducing manual review time.

PROJECTS

- **Stilltheory.com** — *May 2022 – Present*
    - Launched StillTheory, a web app for chess opening analysis now used by 500+ registered players, providing personalized repertoire insights and real-time visual feedback.
    - Built a responsive backend infrastructure using Celery, Django Channels, Redis, and WebSockets to enable live progress updates, supporting concurrent usage across 40+ countries without performance degradation.
    - Engineered a data pipeline that ingests and processes millions of chess game records from external APIs, transforming them into personalized opening trees per user in under 30 seconds.

- **Predicting Professor Ratings** — *Feb. 2025*
    - Built a machine learning model to predict professor ratings on PlanetTerp using features such as class difficulty, department, number of courses taught, tenure, and review sentiment.
    - Trained Random Forest, Multinomial Logistic Regression, and sentiment-only models, finding that average review sentiment alone enabled 88% accuracy, and that mid-range ratings were the hardest to classify.