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EDUCATION

The University of Texas at Arlington (UTA)

B.S. in Computer Science

Aug. 2022 - May 2026 GPA: 3.8+ (4x Dean's List)

Leadership Roles

Education Director for the Association of Computing Machinery (ACM)

HackUTA 7 (2025) Experience Officer

The Wesley Board of Directors' Student Representative and Lead Team Member

TECHNICAL SKILLS

Languages: Python, C, Java, Scala, Elm, JavaScript

ML / AI: TensorFlow, Keras, PyTorch, NumPy, Pandas

Full-Stack: FastAPI, Pydantic, Postman, OAuth2

Software Tools: Maven, GDB, JUnit, GitHub Actions

Databases: SQLite, MySQL, MongoDB, SQLAlchemy

Visualization: Matplotlib, Seaborn, GeoPandas, Folium

Platforms: Windows, Ubuntu, Docker, Heroku

Web / Markup: HTML, CSS, LATEX

WORK EXPERIENCE

SpenAI Engagement Manager

Jul. 2024 - Present

- Curated engagement strategy for OpenAI's largest public-facing user community, supporting 135,000+ global users through interactive initiatives, educational events, and newsletters.
- Analyze engagement metrics and user sentiment to refine programming and support product alignment, contributing to a 120%+ increase in engagement within six months.

OpenAI Community Volunteer

Sep. 2022 - Jul. 2024

USDA ARS AI/ML Researcher

Jul. 2025 - Present

- Continuing part-time with USDA ARS to extend HPAI predictive modeling into a public-facing web application.
- Building an automatic-updating geospatial forecasting tool to visualize county-level HPAI risk up to one month in advance.
- Integrating Flask, Dash, and prior research models to support interactive, location-specific outbreak forecasting.
- Enabling data-informed decision-making in national biosurveillance through accessible, automated tools.

USDA ARS AI/ML Research Internship

May 2025 - Jul. 2025

- Led development of machine learning models to detect and forecast Highly Pathogenic Avian Influenza (HPAI), in partnership with USDA national program and research leaders.
- Built and tuned classification and forecasting ensembles using imbalanced-learning and gradient boosting, achieving 80%+ balanced accuracy on national-scale data.
- Designed a rolling monthly forecast system using lagged climate indicators for proactive, county-level HPAI risk prediction.
- Communicated results to cross-disciplinary USDA teams, supporting evidence-based strategies for surveillance and prevention.
- Performed geospatial preprocessing, threshold optimization, and model interpretation within modular Python workflows.

CSE 3320 Operating Systems Teaching Assistant

Jan 2025 - May 2025

- Instructed 120 students in key OS concepts including deadlocks, job scheduling, and memory management.
- Selected as 2nd-ever undergraduate TA in 14 years, personally recommended by faculty.
- Guided students through hands-on projects including shell creation, multithreading, and custom malloc().

PROJECTS

American Sign Language (ASL) Detector in Python

- Created a dataset with OpenCV and MediaPipe, collecting 2000+ ASL samples to train a neural network model.
- Assembled the model using TensorFlow, achieving 90+% accuracy in detecting ASL letters from live video.
- Implemented multi-threading to run video, predictions, and Text-to-Speech in parallel, ensuring real-time interpretation.

Algorithm Learning Platform in Elm

- Designed a user-friendly educational platform to visualize commonly taught algorithms and data structures.
- Actively used by UT-Arlington faculty in lectures to enhance teaching and improve student comprehension.
- Visualized 23+ algorithms and data structures with interactive, step-by-step animations covering sorting, searching, tree and graph traversals, heap operations, and more.