Malaya Wilburd

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SUMMARY

Highly motivated Computer Science senior at Arkansas Tech University with developing expertise in software development using Python, Java, C++, and SQL. Seeking an Artificial Intelligence position to apply strong analytical and programming skills towards innovative ML/AI projects, build practical model development experience, and contribute effectively within a collaborative, research-focused setting.

SKILLS

Programming Languages: Python, Java, C++, JavaScript, SQL

Web Development: React.js, Next.js, HTML/CSS

Databases: MySQL, Database Design, SQL Querying

Core CS Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Engineering Principles, Git / Version Control, System Design

AI/ML Concepts & Tools: LLMs (Large Language Models), Prompt Engineering, Agentic AI, Retrieval-Augmented Generation (RAG - conceptual), NLP (Natural Language Processing), Predictive Modeling, Pandas, Classifier Algorithms (AdaBoost, SGD, KNN)

Professional Skills: Problem Solving, Analytical Thinking, Team Collaboration, Adaptability, Effective Communication

EDUCATION & CERTIFICATIONS

Arkansas Tech University | Bachelor of Science in Computer Science — Expected May 2026

Arkansas Tech University | Associate of Science in Information Technology — December 2024

Arkansas Tech University | Certificate of Proficiency Computer Programming — December 2024

Arkansas Tech University | Certificate of Proficiency Mathematics — May 2025

NVIDIA | Certificate of Competency Building LLM Applications with Prompt Engineering — June 2025

GOOGLE | Crash Course on Python — July 2025

PROJECTS

AI Voice Assistant | Python, LLM, Prompt Engineering (still developing) — 2025

- Developed a real-time, conversational AI Voice Assistant utilizing Python and the LiveKit Agents framework.
- Integrated Google's RealtimeModel (LLM) to power natural language understanding and generation, enabling dynamic, instruction-driven responses.
- Implemented Agentic AI principles by leveraging custom prompt engineering (agent_instruction, session_instruction) to guide the LLM's behavior and conversational flow.
- Configured real-time audio processing, including advanced noise cancellation, optimizing speech recognition and user interaction in live environments.
- Demonstrates practical experience in end-to-end AI system development, API integration, and deploying LLM-powered applications for interactive use cases.

RapidRoute: AI for Accelerated Mental Health Triage in Veteran Care, Team Member 2025

- Designed and prototyped RapidRoute, an AI-powered triage system to accelerate mental health care access for adult veterans.
- Utilized Natural Language Processing (NLP) and predictive modeling to identify and prioritize higher-risk cases from remote, asynchronous assessments.
- Focused on improving timely access to care while maintaining clinical accuracy, privacy, and enabling clinician oversight.

Personal Portfolio Website | Javascript 2025

- Designed and developed a responsive personal portfolio website utilizing React.js for dynamic user interfaces and Next.js for optimized performance and SEO.
- Showcases a comprehensive collection of development initiatives, certifications, education.
- Engineered with a focus on clean design, intuitive navigation, and a seamless user experience across various devices.

Rental Property Management System | SQL 2025

- Designed and built a normalized database system using MySQL to track properties, tenants, rent, and expenses across multiple companies.
- Engineered for scalability and robust reporting capabilities.

Interactive Adventure Game | C++ 2024

- Designed and developed a fully interactive, jungle-themed text adventure game using object-oriented programming in C++.
- Implemented custom classes for scalable gameplay logic and dynamic user interaction.
- Developed a robust command parser to handle diverse user inputs, actions, and item interactions.

Flappy Bird Clone | Unity (C#) 2024

- Developed a Flappy Bird-inspired game utilizing Unity and C#.
- Implemented core game mechanics including physics, collision detection, and a scoring system.
- Designed responsive UI elements and optimized gameplay for smooth performance.

NIST JARVIS Project, Team Member | Pandas 2023

- Contributed to JARVIS, a National Institute of Standards and Technology (NIST) initiative focused on automating materials discovery and optimization through data-driven approaches.
- Engineered and analyzed a specialized dataset for bulk materials (e.g., crystal structures) using Python and Pandas to extract key features.
- Applied various classifier algorithms (AdaBoost, SGD, KNN) to model the complex relationship between material properties (e.g., bandgap) and their crystal structure.
- Demonstrated foundational machine learning techniques in a scientific research context, contributing to the development of predictive models that accelerate materials science research.

PROFESSIONAL EXPERIENCE

Stealth Security | Web Developer October 2024 - Present

Developing a high-performance, responsive website aimed at enhancing critical business functionalities and user experience. (Remote)

Top Choice Auto Group | Salesman/Office Assistant May 2022 - Present

Cultivated strong customer relationships while providing personalized vehicle selections, consistently achieving sales objectives. Efficiently managed all backend administrative processes, including title transfers, financing documentation, and billing. (Family business, part-time during breaks.)

Miracle Hands | Caregiver May 2022 - Present

Provided compassionate and personalized care to clients, assisting with daily living activities, meticulously monitoring health conditions, and fostering positive client communication and well-being. (Family business, part-time during breaks.)

Superior Smell Cleaning Services | Cleaner May 2019 - April 2020

Executed comprehensive residential cleaning services, consistently ensuring a pristine environment and high client satisfaction. Managed time effectively to address diverse client preferences. (Family business, part-time during school/full time on breaks.