

Tyler Gibbs

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Education

University of Oklahoma , BS in Computer Science	Expected May 2026
<ul style="list-style-type: none">GPA: 3.9/4.0Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, Operating Systems, Data AnalyticsExtracurricular: Member, University of Oklahoma Robotics Team	

Professional Experience

Data Analyst/Software Engineer , Lexis Nexis	Aug 2023 - Present
<ul style="list-style-type: none">Performed data analysis using SQL, Python, and Excel; created reports with Tableau and Power BIDeveloped productivity-enhancing software tools, saving \$142,000 through efficient solutionsConducted statistical analysis, predictive modeling, and managed data cleaning/validation	
Software Engineer Freelancer	Jul 2022 – Aug 2023
<ul style="list-style-type: none">Translated client needs into technical requirements and developed software applicationsUsed Java, Python, and C++ for various projects, adopting new technologies as neededApplied Agile methodologies for project management	

Projects

Backwork - Advanced Medical AI Solution	2024 - Present
<ul style="list-style-type: none">Developed AI-powered medical coding automation system for efficient billingCreated HIPAA-compliant local LLM solution for healthcare clinics:<ul style="list-style-type: none">Hosted LLM and embedding models on local GPU clustersImplemented RAG for intelligent document queryingEnabled local fine-tuning on clinic-specific dataTrained PLM-CA model on MIMIC data with transformer technology	
Transformer-based Self-Driving Car	2024
<ul style="list-style-type: none">Developed self-driving car system using transformer architecturesImplemented Vision Transformer for perception, Sequence Transformer for trajectory prediction, and Decision Transformer for action selectionIntegrated hardware on 1/10 scale RC car platform using ROS2Utilized PyTorch, TensorFlow, and Docker for development and testing	
Shadow - AI-Powered OS Assistant	2024
<ul style="list-style-type: none">Developed advanced AI assistant with full desktop control capabilitiesImplemented core features using Python, LLM chains, and wakeword activationIntegrated Pinecone Vector Database, long-term memory, and web searchUtilized function calling and AI agents for automated tasks	
AI Case Number Analyzer	2023
<ul style="list-style-type: none">Developed AI system to analyze court case number structures using LLM agentsImplemented multi-agent framework (CrewAI) for collaborative problem-solvingCreated specialized tools for web scraping, data cleaning, and analytics	

Technical Skills

Languages: Python, C++, Java, SQL, JavaScript, HTML/CSS
Technologies & Tools: PyTorch, TensorFlow, ROS2, Docker, Git, Django, Flask, CI/CD, Pandas, NumPy, CrewAI, LLM Chains
Concepts: Computer Vision, Robotics, Transformer Architectures, AI/LLMs, RAG, Multi-Agent Systems, OS Integration, Vector Databases, HIPAA Compliance, Machine Learning