Reiley Meeks

AI Engineer | Software Engineer

Charlotte, NC | rmeeks10@icloud.com | 704-797-1001
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TECHNICAL SKILLS

AI/ML: PyTorch, TensorFlow, Hugging Face Transformers, LangChain, Ollama, RAG (Retrieval-Augmented Generation), Vector Databases, Fine-tuning, Prompt Engineering, NLP, Local LLM Deployment
Languages: Python, Swift, TypeScript, JavaScript, Java
Web & Mobile: React, Next.js, React Native, Node.js, Flask, Django, SwiftUI, Vapor
Cloud & Data: Azure, Google Cloud Platform, AWS, Oracle Cloud, Docker, Firebase, PostgreSQL, MongoDB
DevOps & Architecture: GitHub Actions (CI/CD), Containerization, Microservices, RESTful APIs, Agile Methodologies
Practices: Unit Testing, Debugging, Object-Oriented Programming (OOP), Git, Performance Optimization

EDUCATION

Masters of Science in Artificial Intelligence | **May 2027**
University of Texas at Austin

Bachelor of Science in Computer Science | **May 2023**
University of North Carolina at Charlotte

EMPLOYMENT HISTORY

AI Engineer | **May 2025 — Present**
Avante Health Solutions | *Charlotte, NC*

- Architected and deployed RAG-based LLM pipeline using MongoDB, Azure Document Intelligence, and Azure OpenAI, increasing service technician productivity and reducing equipment service time.
- Led research and implementation of local Large Language Model deployments (GPT OSS, Qwen 3).
- Own all AI initiatives across the company including development, planning, architecture, and cloud infrastructure for machine learning systems.
- Developed full-stack AI features using Python, JavaScript, and React, integrating Azure OpenAI and custom fine-tuned models to deliver predictive insights to enterprise customers.

Founding Software Engineer | April 2025 — Present
Amiqo | Atlanta, GA

- Built and scaled Amiqo's mobile application using React Native, delivering seamless cross-platform performance.
- Led application architecture refinement, implementing modular component design that reduced technical debt by 30% and improved feature velocity by 50%.
- Optimized app performance through code profiling and lazy loading strategies, reducing initial load time by 65% and memory usage by 40%.

Co-Founder & Chief Technology Officer | March 2025 — Present
Homelore | Charlotte, NC

- Defined and implemented full technical stack (Next.js, Swift Vapor, MongoDB, Firebase) to support AI-powered home data platform.
- Architected and deployed containerized Swift Vapor backend with RESTful APIs, achieving 99.9% uptime and <100ms average response time.
- Engineered secure authentication system using Firebase Auth integrated with MongoDB, supporting multi-tenant architecture and role-based access control.
- Integrated AI capabilities for intelligent data processing and analysis, leveraging natural language interfaces and automated insights generation.

Software Engineer | January 2024 — March 2025
Trane Technologies | Davidson, NC

- Built and deployed 8+ production full-stack applications using Next.js, MongoDB, and Azure serverless functions, serving 1,000+ internal users across global operations.
- Led design and implementation of modular UI framework for LLM-powered applications using Next.js and Azure OpenAI API, reducing development time for new AI features by 60%.
- Automated CI/CD pipelines using GitHub Actions, reducing deployment time and decreasing production incidents through automated testing.

Independent Software Consultant | May 2020 — Present
Self Employed | Charlotte, NC

- Delivered custom full-stack web applications for clients using Next.js, TypeScript, and RESTful APIs, with 100% on-time project completion rate.
- Engineered iOS applications using SwiftUI and SwiftData with offline-first architecture, iCloud sync, and cloud database integration.
- Provided technical consulting on cloud architecture, API design, and mobile app modernization strategies for small and medium-sized businesses.