

Abdul Malik Khudus Shaik

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EDUCATION

George Mason University, Fairfax, VA.

Aug 2023 - May 2025

Master of Science in Computer Science

Relevant Coursework: Advanced NLP, Artificial Intelligence, Data Structures & Algorithms, Database Systems

PROFESSIONAL EXPERIENCE

Software Engineer (AI) Intern

AI Stealth Startup

July 2025 - Present

- Engineered full-stack SaaS platform with AI-powered content generation using OpenAI GPT-4 and Google Gemini APIs to automatically analyze project photos and create platform-optimized social media posts, built on Next.js 14, Express.js, and Supabase PostgreSQL with comprehensive API testing via Postman
- Developed comprehensive gamification and referral system featuring automated point allocation, tier progression, 20+ achievement badges, real-time leaderboards with materialized views, and secure multi-stage conversion tracking with cookie-based attribution and CRM integration capabilities
- Built multi-platform social automation engine with OAuth integration for Facebook, Instagram, Twitter, LinkedIn, and TikTok, plus Stripe Connect payment processing for automated commission calculations and payout management with RESTful API documentation and testing

AI Agent Developer

Freelance

June 2025

- Delivered a Retell AI voice agent integrated with n8n to triage calls, surface live schedules from CSVs, and convert new inquiries into paid trial sign-ups; SMS-first follow-ups via ClickSend with optional email (targets: $\geq 35\%$ conversion, < 5 -min avg. call)
- Implemented time-zone-aware open/closed checks via webhook with conditional after-hours handoff to Google Sheets, reducing unnecessary human escalations, ensuring 24*7 caller support
- Designed guardrailed instruction sets and function-calling schemas (verification, single-question cadence, hours checks, anti-spam); A/B-tuned messaging and standardized JSON payloads through iterative prompt design to improve conversion and self-service containment

Data Analysis Intern

MyLLife Inc

June 2024 - May 2025

- Created a custom AI chatbot using Retrieval-Augmented Generation (RAG), integrating OpenAI's API with proprietary Qur'an translations to deliver accurate, context-aware responses for 1,000+ users with over 95% success rate. Sourced key realtime, accurate financial data from Bloomberg Terminal using Bloomberg Query Language(BQL)
- Streamlined data collection by implementing advanced research strategies, increasing data acquisition speed by 40% and improving reliability across 8+ research initiatives.
- Published data-driven insights and case studies to 500+ newsletter readers using advanced analysis and Tableau dashboards.

PROJECTS

Intelligent Health Analytics Platform - Production RAG System

ReactJs, TypeScript, Vite, Tailwind CSS, Recharts, Claude API, ElevenLabs, AWS (S3 and Lambda)

- Architected a full-stack web application using React and TypeScript to transform raw csv exports into interactive dashboards and personalized insights with secure file storage and retrieval via AWS S3. Automated backend tasks using Lambda
- Implemented Retrieval Augmented Generation system leveraging user specific embeddings to generate personalized Claude Sonnet 4 powered responses, integrating live TTS with ElevenLabs API
- Designed modular frontend components and anomaly detection, powered by a Python backend using FastAPI and scikit-learn for model serving and integration, all leading to a potential consumer engagement increase by 40%

VerifAid - OSINT-Focused Desktop APP for Content Legitimacy Analysis:

PyQt5, Python, TogetherAI, Perplexity Sonar API, OpenAI Whisper, PIL(Pillow)

- Developed a desktop application to support OSINT workflows with real-time credibility checks on digital content
- Integrated Whisper for transcription with LLM aided search augmentation to detect misinformation with 85% accuracy.
- Constructed a modular PyQt5 interface for media submission and structured review of retrieved evidence, facts and sources

Hoopify - NBA Data Pipeline and Predictive Analysis

Python, Playwright, BeautifulSoup, pandas, scikit-learn, PowerBI

- Engineered a pipeline to scrape and parse NBA game data, and advanced metrics using Playwright and BeautifulSoup
- Automated data cleaning and feature engineering for 1,600+ games across 150 metrics, reducing processing time significantly
- Produced a predictive model achieving 94% accuracy and visualized team performance trends using PowerBI

SKILLS

- Programming Languages:** Python, Java, C++, JavaScript, Typescript, Golang
- AI:** LangChain, LlamaIndex, RAG, MCP, LLM, VectorDB, LangGraph, CrewAI, n8n, Retell AI, Retool, Prototypes, Ethics
- Machine Learning & NLP:** PyTorch, TensorFlow, Transformers (Hugging Face), LangChain, LlamaIndex, NLTK, scikit-learn, Vector Databases, LLM Fine-tuning, RAG
- Deep Learning:** Model Training & Serving, Model Quantization, Optimization (ONNX Runtime, Kernel Fusion, KV Cache), Speech & Vision Models, Distributed Training
- Cloud & Infrastructure:** AWS (Lambda, SageMaker, DynamoDB), GCP, Docker, Kubernetes, CI/CD, Distributed Systems
- Databases & APIs:** PostgreSQL, MongoDB, MySQL, FastAPI, Flask, RESTful APIs, SQL Server, GraphQL
- Software Development:** SDLC, Agile, Waterfall, End-to-End Development, RESTful API Development, Microservices, CI/CD