

MUHAMMAD TAHA HAQQANI

Dallas, TX | tahaapply@gmail.com | linkedin.com/in/taha-haqqani | github.com/tahahaqqani | tahahaqqani.com

WORK EXPERIENCE

AT&T, Business Center, Senior Software Engineer October 2023 – Present

- Developed enterprise Angular and Spring Boot microservices supporting B2B inventory, ordering, billing, and ticketing flows.
- Designed a real-time API observability and alerting system using Azure Power Automate and structured logging, reducing MTTR by 85% through automated incident routing and workflow orchestration.
- Implemented end-to-end Playwright tests for automated regression testing, reducing manual QA effort by 40%.
- Reduced page load times by up to 70% through lazy loading, API parallelization, and caching techniques.

AT&T, Customer Advocacy and Service, Software Engineer II March 2023 – October 2023

- Developed new features for Atlas field tech app in Angular and Express.js to support over 30,000 field technicians.

AT&T, Business Cybersecurity, Software Engineer I January 2022 – February 2023

- Automated testing workflows for AlienVault's USMA Agent, enhancing endpoint test coverage resulting in \$1M savings annually.
- Built Flask based REST APIs powering security workflows for 100,000+ customer endpoint agents across distributed system.
- Boosted multi-platform testing efficiency by 80% with a custom simulation tool for agent behavior validation.

AT&T, Data Science and AI Research, Software Engineering Intern II June 2021 – August 2021

- Analyzed 10M+ TV viewership and ad placement data using Databricks to evaluate reach, frequency, audience overlap, and campaign lift across different customer segments.
- Built 20+ Tableau dashboards visualizing trends such as peak viewing times, genre engagement, ad impressions by segment, and campaign performance metrics to support data driven marketing decisions.

AT&T, Strategic Platforms, Software Engineering Intern I June 2020 – August 2020

- Built a Spring Boot application for an AIOps fraud detection system that computes custom metrics such as MTTR to automate task assignment for developers resulting in over 65% reduction in incident response time.
- Built a React based analytics dashboard that processed MS Teams transcripts to extract sentiment and participation metrics using NLP techniques to measure engagement in virtual classrooms.

PROJECTS

Portfolio Chatbot: RAG chatbot using OpenAI APIs and vector embeddings for semantic retrieval and context aware responses.

Etsy Analytics: App for Etsy stores with dashboards for revenue forecasting, promotional impact, and customer segmentation.

Stock Research Agent: Multi agent system that uses market data, technical indicators, and news for investment insights.

Trading Simulator: ML-based trading system with Q-Learning strategies, walk-forward optimization, and ensemble methods.

TECHNICAL SKILLS

Languages & Frameworks: Python, TypeScript, Java, Angular, React, Next.js, Spring Boot, Node.js, FastAPI

Gen AI: OpenAI, Claude, LangChain, LangGraph, CrewAI, AutoGen, OpenAI Agents SDK, MCP, RAG, Pgvector, Pinecone

ML/DL: PyTorch, Scikit-learn, Hugging Face, Fine Tuning (LoRA/QLoRA), NLP, Embeddings, Weights & Biases, Streamlit, Gradio

Data: Postgres, MongoDB, Supabase, Redis, Databricks, Snowflake, MLflow, Tableau, Power BI, Power Automate

Cloud & Infra: Azure (Functions, App Services, AI Services, Blob Storage, Cosmos DB), Docker, Kubernetes, GitHub Actions

ACHIEVEMENTS

Patent: Co-invented and patented a group recommendation system for HBO MAX that aggregates multi-user preferences using weighted ranking and similarity scoring algorithms to optimize shared viewing decisions.

TDP NST Innovation Challenge (First Place): Designed a data-driven cable tray optimization system for 5G cell sites that generated optimized layouts, and reduced material waste with estimated \$2.7M in annual savings.

TDP Hacks Consumer Experience Hackathon (Best Design Award): Prototyped a real-time interactive application simulating varying internet speeds to help customers compare performance and select optimal fiber plans based on usage needs.

EDUCATION

Georgia Institute of Technology, Atlanta, GA

May 2026

Master of Science, Computer Science (Artificial Intelligence Specialization)

Texas A&M University, College Station, TX

December 2021

Bachelor of Arts, Computer Science