

# Ajmal Amir

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## Education

University of North Carolina at Charlotte

Charlotte, NC

Master of Science in Computer Science (AI & Robotics)

Dec 2025

Bachelor of Science in Computer Science (Software Engineering)

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## Technical Skills

### Programming & Development

Python, Java, JavaScript, TypeScript, Node.js, C/C++, HTML, CSS, Flask, React, React Native

### AI & Machine Learning

PyTorch (academic exposure), Hugging Face, scikit-learn, LLM Prompt Engineering, Retrieval-Augmented Generation (RAG), LangChain, LangGraph, Groq (LLaMA models), AI APIs

### Web & Backend Technologies

REST APIs, HTTP, JSON, AJAX, Server-Side Development, Authentication (OAuth, Google Auth)

### Databases

PostgreSQL, MongoDB, MySQL, Firebase, SQLAlchemy

### Cloud & DevOps

Cloud Deployment (Azure), Git/GitHub, CI/CD fundamentals, API integrations

### Software Practices

Agile/Scrum, System Design, Secure Coding Practices, Data Structures & Algorithms

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## Professional Experience

SwiftSift, Inc. — Charlotte, NC

Jan 2026 – Present

- Led the transition of software development from an external vendor (Buildify) to an in-house engineering function, ensuring a smooth and secure knowledge and codebase transfer.
- Managed and validated the handoff of source code, repositories, credentials, documentation, and development workflows.
- Reviewed, organized, and assessed the existing codebase to ensure maintainability, security, and scalability.
- Provided hands-on technical leadership for UI/UX and product development initiatives.
- Advised founders on system architecture, tooling, security practices, and engineering standards to establish a strong internal technical foundation.
- Acted as a senior technical advisor, contributing to decisions on architecture changes, platform migrations, third-party integrations, and roadmap prioritization in collaboration with executive leadership.

## Graduate Teaching & Research Assistant | UNCC — Feb 2025 – Dec 2025

- Supported graduate and undergraduate courses in **software engineering and web applications**.
  - Assisted with **research, grading, and technical evaluations**, ensuring code quality and best practices.
  - Communicated technical concepts clearly to **non-technical students**, strengthening stakeholder communication skills.
  - Collaborated in academic agile-style workflows and maintained technical documentation.
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## Software Engineer | Astro AI Trading (Remote) — Mar 2024 – Jul 2024

- Designed and developed **full-stack applications** integrating **AI-driven logic** with user-facing interfaces.
  - Built and tested backend services using **Python and Node.js**, following clean and maintainable coding standards.
  - Collaborated with cross-functional teams to deliver scalable, secure solutions across the SDLC.
  - Participated in planning, testing, deployment, and iterative improvements in an agile environment.
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## Software Engineer Intern | Astro AI Trading (Remote) — Nov 2023 – Feb 2024

- Implemented **AI-based algorithms** for trading insights, risk management, and data-driven decision support.
  - Developed REST APIs and frontend enhancements using **JavaScript, HTML, and CSS**.
  - Applied version control (**Git**) and collaborated via pull requests and code reviews.
  - Gained exposure to **AI model integration, prompt engineering**, and real-time data workflows.
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# AI & Software Projects

## Bug Severity Classification & Prioritization System

*Python, DistilBERT, Hugging Face, scikit-learn, NLP*

- Built an **AI-based bug classification system** to automatically categorize software issues by severity.
- Trained and evaluated **DistilBERT-based NLP models**, handling class imbalance and performance tuning.
- Implemented preprocessing pipelines, model evaluation metrics, and result analysis.
- Demonstrated practical use of **machine learning for real-world software engineering workflows**.

## Show Me Around — AI Travel Assistant

*React Native, Expo, Google Maps API, Groq, LangGraph, Firebase*

- Built an **AI-powered travel assistant** that recommends activities using **LLMs and RAG pipelines**.

- Designed multi-agent workflows leveraging **LLaMA models**, Tavily search, and semantic retrieval.
  - Implemented **RESTful backend communication**, cloud data storage, authentication, and chat history persistence.
  - Focused on **secure API usage, modular design**, and scalable architecture.
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## **StockMarketIQ — Market Analysis & Prediction Platform**

*Python, Streamlit, scikit-learn, pandas, Matplotlib*

- Developed an AI-driven analytics platform with **ML models** (KNN, SVM, Decision Trees, Random Forest).
  - Designed dashboards for **data storytelling**, predictive insights, and report generation.
  - Emphasized **clean code, reproducibility**, and performance evaluation.
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## **TOM Team Scheduling Board**

*Node.js, MongoDB, Swift, HTML, CSS, JavaScript*

- Built a **full-stack scheduling system** used by Amazon Transportation Associates and managers.
  - Implemented **secure login, task assignment, notifications**, and mobile/web integration.
  - Applied **micro-service-style separation**, REST APIs, and database optimization.
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## **Dental Clinic Management System**

*MySQL, SQL, Database Design, Indexing, Stored Procedures, Triggers*

- Designed and implemented a **relational database system** for managing dental clinic operations, including **patients, appointments, treatments, billing, and staff**.
- Created **normalized schemas** with appropriate primary/foreign keys, constraints, and relationships to ensure **data integrity and consistency**.
- Wrote **complex SQL queries**, joins, and views to support real-world business logic and reporting requirements.
- Enhanced the system using **stored procedures and triggers** to automate workflows and enforce business rules.
- Implemented **indexes and query optimization techniques** to improve performance and scalability.
- Applied **transaction management and basic security considerations** to handle sensitive healthcare-related data reliably.
- Demonstrated strong **backend engineering and database problem-solving skills** applicable to enterprise systems.