

Arnav Sharma

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EDUCATION

Texas A&M University | B.S. in Computer Science, Minor in Statistics
College Station, Texas | GPA: 3.65 | Expected graduation: **August 2027**

EXPERIENCE

IBM | Customer Success Engineer - Automation (Aug 2026 - Present)

Built a Python prospecting automation tool that processed 100+ prospects using employee names and company-specific email formats. Added six Cloud Pak tutorials to AccessHub and support IBM Network Intelligence account research.

Spectral AI | Software Engineering Intern (May - Aug 2026)

Developed a GraphRAG platform using Python, Neo4j, Ollama, and vector embeddings for employees to query 50+ engineering documents. Built document ingestion and metadata extraction, source-cited Q&A, and an AI-assisted document review prototype; manually evaluated answers against source documents.

AEM Creations | Web Developer Contractor (May 2026 - Present)

Build responsive React/TypeScript galleries with category filtering and PDF/image thumbnails. Develop PHP/Bootstrap portfolio and contact interfaces. Implemented carousel, navigation, donation, and responsive updates for the live Matthew Kolodoski campaign website.

Hexagon | Smart 3Dx Application Development Intern (May - Aug 2025)

Built C#.NET MCAT performance tests for drawing updates, folder updates, and drawing opening. Instrumented tracing to attribute 95% of update time to specific stages, produced CSV reports, and integrated tests with Azure DevOps and Jenkins.

SELECTED PROJECTS

Secure Agent | Governed security investigation platform (Go / Python / React)

Built a multi-tenant tool gateway and bounded investigation worker with evidence citations, independent approval gates, and simulated containment. Native deterministic acceptance checks cover approval, rejection, and idempotent decisions; in-memory verification is separate from PostgreSQL/Redis behavior.

Project Argus | Drone swarm search-and-rescue simulation (Python / AirSim / PyTorch)

Owned the software implementation of a multi-agent AirSim/PettingZoo simulation. Developed MAPPO and DQN training code, reward signals, and YOLO-based perception experiments. The portfolio exhibit presents an actual fixed-action simulator baseline and a separately labeled coordination illustration.

ValinX | System metrics and anomaly detection (Python / SQLite / scikit-learn)

Connected cleaning, Isolation Forest scoring, SQLite persistence, and tool-based retrieval. Preserved sample IDs across 85,749 metrics records and verified ranked anomaly lookups and neighborhood joins. Browser explanations are prepared from evidence; they do not call a live model.

SKILLS & COURSEWORK

Languages: Python, Go, C#.NET, SQL, Java, C++, JavaScript/TypeScript, PHP, HTML/CSS

Tools: React, Tailwind CSS, PyTorch, scikit-learn, Neo4j, Ollama, Azure DevOps, Jenkins, Git

Coursework: Data Structures and Algorithms, Machine Learning, Computational Photography, Software Engineering

Certification: IBM AI Fundamentals (SkillsBuild Badge)