

Harsh Agarwal

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Professional Summary

Dynamic and results-oriented **AI Engineer** and **Data Scientist** with hands-on experience in designing, deploying, and scaling **AI-powered automation systems** across enterprise platforms. Proven track record of building **secure, high-performance**, and **cloud-native** solutions using **Python, Azure, LLMs**, and **MCP orchestration**. Adept at integrating **AI agents** with tools like **Salesforce, Box, Jira**, and **AtlasFive®**, driving up to **3× faster analyst workflows** and reducing manual interventions by over **90%**. Skilled in **data engineering, feature extraction, model training**, and **structured telemetry**, with deep expertise in **financial data pipelines, document management**, and **reconciliation automation**. Committed to delivering **audit-compliant, secure-by-default** systems with **RBAC, Key Vault**, and **CI/CD pipelines**. Seeking to contribute to cutting-edge AI initiatives that transform business operations and unlock data-driven decision-making.

Education

- **Purdue University** – B.S. in Mathematics-Computer Science, Data Science, and Applied Statistics
Expected Graduation: December 2025

Professional Experience

Eton Solutions, Morrisville, NC

Trainee AI Engineer *May 2025 – Present*

- Spearheaded development of **AI-powered automation** modules within **AtlasFive®**, streamlining workflows for **family offices, RIAs**, and **private equity firms**.
- Delivered intelligent solutions for **document ingestion, reconciliation, reporting**, and **request routing**, resulting in **~3× faster analyst throughput**.
- Orchestrated **AI Agents** via **MCP (Model Context Protocol)** across 5+ enterprise platforms including **Azure, Salesforce, Box, Jira**, and **LLM APIs**.
- Deployed agents with **Poetry packaging**, achieving **<5s latency** and maintaining **<1% failure rate** on steady-state jobs.
- Strengthened **cloud security posture** by implementing **100% secrets management** in **Azure Key Vault**, enforcing **least-privilege RBAC**, and enabling **audit-compliant logging**.
- Enabled **single-command deployments, structured telemetry**, and **guardrails** to reduce manual reruns and ensure production-grade reliability.

AI Engineer Intern *May 2024 – May 2025*

- Automated **multi-factor authentication (MFA)** and **OTP-based statement retrieval** for major custodians, reducing cycle time from **20 minutes to <90 seconds (-92%)**.
- Stabilized **1,000+ nightly jobs** with **~99% success rate**, using **retry logic, structured logging**, and **alerting mechanisms** to minimize manual interventions.
- Authored internal documentation and onboarding guides for **GitHub Copilot**, reducing new engineer setup time by **75% (4h → 1h)**.
- Collaborated with QA teams to triage and resolve **30+ bugs** in **EtonAI**, contributing reproducible test cases and automation scripts.
- Implemented **error taxonomy** and **telemetry dashboards** to enhance observability and reduce support tickets during peak cycles.

Core Competencies & Skills

- AI Automation & Agent Orchestration
- Machine Learning & Model Evaluation
- Cloud-Native Development (Azure)
- Prompt Engineering & LLM Integration
- Secure-by-Default Architecture (RBAC, Key Vault)
- Data Wrangling & Feature Engineering
- Enterprise Systems Integration (Salesforce, Jira, Box)
- CI/CD Pipelines & DevOps (GitHub Actions, Azure DevOps)
- Financial Data Processing & Reconciliation
- Structured Telemetry & Observability

Technical Skills

- Languages & Libraries: Python, SQL, Java, C++, JavaScript, R, MATLAB, pandas, NumPy, scikit-learn, PyTorch, TensorFlow, Selenium, Poetry, Git
- Data Science: ETL pipelines, data wrangling, feature engineering, model training, evaluation, predictive modeling, Tableau, prompt engineering, LLM orchestration, MCP
- Cloud & DevOps: Azure Functions, Container Apps, Durable Functions, Service Bus, Event Grid, API Management, Key Vault, Entra ID, CI/CD, GitHub Actions, Azure DevOps, Docker
- Security & Governance: Secrets management, RBAC, least-privilege access, audit logging, structured telemetry, guardrails, error taxonomy, idempotency, deduplication
- Enterprise Tools: Salesforce, Box, SharePoint, Jira, Confluence, AtlasFive®, EtonAI™
- SDLC: Version control, code review, automated testing, QA triage, technical documentation, team onboarding.

Leadership Skills

- **Leads cross-functional AI projects**, aligning technical execution with business goals across automation and financial domains.
- **Mentors engineering and QA teams**, sharing best practices in **structured logging**, **test case design**, and **onboarding documentation**.
- **Drives process innovation**, implementing **AI-first workflows** that reduce manual effort by over **90%** and improve team efficiency.
- **Collaborates with stakeholders**, including product managers and client teams, to scope and deliver high-impact, production-ready solutions.
- **Promotes secure development practices**, enforcing **RBAC**, **secrets management**, and **audit-compliant telemetry** across cloud deployments.

Achievements

- Delivered **~3× faster analyst workflows** by deploying **AI-powered automation** in AtlasFive®, streamlining document intake, reconciliation, and reporting.
- Achieved **zero security breaches** by implementing **100% secrets management** via **Azure Key Vault** and enforcing **least-privilege RBAC** across cloud services.
- Reduced **manual reruns by over 90%** through robust agent design with **guardrails**, **structured telemetry**, and **retry logic**, maintaining **<1% failure rate**.
- Cut **MFA/OTP statement retrieval time by 92%** (20 min → <90 s) using **Selenium automation**, stabilizing **1,000+ nightly downloads** at **~99% success rate**.
- Authored onboarding guides for **GitHub Copilot**, reducing new engineer setup time by **75%** and accelerating team productivity.
- Built and deployed a unified **AI agent orchestration layer** using **MCP**, enabling **natural language prompt routing** across **Azure**, **Salesforce**, **Box**, and **LLM APIs**.