

Monish Sinha

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EDUCATION

Case Western Reserve Univ

B.S. Data Science, Finance minor | GPA: 3.5/4.0 | Dean's List

University College Dublin

Study Abroad

Aug 2023 – Apr 2027

Cleveland, OH

Jan 2026 – May 2026

Dublin, IE

RELEVANT EXPERIENCE

Technology Analyst

June 2026 – Present

PNC Financial Services • Continued Part-Time

Pittsburgh, PA

- Built a Java 21 code conversion engine using Azure AI Foundry to migrate legacy Hive to Iceberg-compatible Spark SQL with automated table-lineage extraction, enabling over **\$2M** in vendor cost savings.
- Built a full-stack application using Jira, Bitbucket, and Azure AI Foundry to automate Change Request (CR) reports, reducing report preparation time by over **90%** (from 1+ hour to under 5 minutes).
- Built an autonomous data pipeline that archives Tableau dashboards to Bitbucket before expiration, reducing archival time by **90%** (from 20 minutes to 2 minutes) while ensuring version-controlled backups.
- Engineered reusable Java 21 libraries for Jira, Bitbucket, and GitHub Enterprise REST APIs, providing a shared integration layer for enterprise AI and automation applications.

AI Governance Intern

May 2025 – Aug 2025

Sherwin-Williams

Cleveland, OH

- Built a GenAI cost-estimation application using Copilot Studio and Azure AI to forecast deployment costs from natural language requests, reducing model approval time by **50%**.
- Developed Power BI dashboards tracking Microsoft 365 and GitHub Copilot adoption, reducing unnecessary Copilot licenses by **15%**.
- Implemented an Azure AI tagging framework that automatically attributes cloud costs to specific AI services, improving cost reporting accuracy and speeding up financial analysis
- Coauthored AI governance guidelines adopted by **64,000+** employees, strengthening responsible AI practices across the organization.

TECHNICAL PROJECTS

DeCypher | *Next.js, TypeScript, Tailwind CSS, Web3*

Spring 2026

- Built a Web3 tool using the Etherscan API to decode smart contract calldata into human-readable transactions.
- Implemented ERC-20 parsing and flagged unlimited token approvals.

U.S. Voting Patterns Analysis | *Python, Spark*

Spring 2026

- Analyzed 47,000+ county-year observations using ACS and U.S. presidential election data.
- Built Spark MapReduce pipelines across 500+ variables and 3,143 counties.
- Benchmarked Spark against single-node processing, achieving up to $3.5\times$ speedup.

ADDITIONAL EXPERIENCE

• Board Member, Conduct Review Board

Nov 2024 – Present

Reviewed academic and conduct cases with faculty to uphold university standards.

• Executive Member, CWRU Quants

Nov 2024 – Present

Developed a real-time trading strategy simulation engine for corporate demonstrations.

SKILLS & CERTIFICATIONS

Languages:	Java, Python, SQL, R, TypeScript, JavaScript, HTML/CSS
Frameworks:	Next.js, Node.js, Tailwind CSS
AI & Data:	Azure AI Foundry, Microsoft Copilot Studio, Apache Spark, Power BI, Streamlit
Developer Tools:	Git, GitHub, GitHub Enterprise, Bitbucket, Jira, Confluence, Linux, Vercel
Concepts:	REST APIs, Full-Stack Development, Data Pipelines, LLM Applications, AI Governance
Certification:	Microsoft Harnessing Data Insights (Power BI)