Cameron Lancaster

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Education

Indiana University Bloomington   Aug 2023 - May 2027

Luddy School of Informatics, Computing, and Engineering

B.S. in Computer Science (AI/ML Specialization)

Minor: Data Science

Work Experience

City of South Bend, South Bend, IN   May 2024 - Aug 2025

Applications Development Intern

- **Engineered Outlook add-in** using React, Node.js, and Microsoft Office SDK to auto-generate DevOps tickets from incoming emails, reducing manual ticket creation time and improving IT response workflows for city staff.
- **Built AI-powered knowledge base formatter** in Word using Azure OpenAI to enforce accessibility standards, assess readability scores, and enable authors to pull and insert 350+ articles from SQL Server directly into documents via HTML parsing.
- **Redesigned legacy data pipeline** by migrating several SQL stored procedures to Python after a third-party vendor deprecated direct database access in favor of an API, engineered solutions to extract ~35,000 daily XML records, as well as transforming data with pandas.
- **Deployed and maintained Azure resources** including web apps, function apps, storage accounts, and containers to host internal applications supporting city operations and data services.
- **Collaborated in Agile sprints** with city developers to gather requirements, review sprint backlogs, and deliver iterative releases for production systems.

Technical Skills

Programming Languages: Python, SQL, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: React, Vite, Node.js, pandas, Microsoft Office SDK, REST APIs

Cloud & DevOps: Microsoft Azure, Microsoft DevOps, Git

Data Engineering: API Data Ingestion, ETL Design, Multithreaded Processing