

ARNAV BHALGAT

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EDUCATION

University of Cincinnati

Bachelor of Science, Computer Science [Honors]

Bachelor of Science, Statistics [Honors]

Coursework: Design & Analysis of Algorithms, Database Systems, Macroeconomics, Regression Analysis, Bayesian Science

Graduating: **May 2028**

GPA: **3.98**

SKILLS

Programming Languages: Python, SQL, R, C++, Java, C, MATLAB, VBA

Software Knowledge: AWS (Lambda, Bedrock, SageMaker AI, S3), Azure, Git/GitLab, SAS, DBeaver, Kiro

EXPERIENCE

Delta Air Lines | Atlanta, Georgia

May 2025-Present

Co-op, Data Science (Flight Operations Training & Planning)

- Developed an AI agent on AWS Bedrock that answers leadership's plain-English questions about pilot training data instantly, reading 9,000+ precomputed S3 files first with a live-database fallback for deeper lookups, replacing hours of analyst query-writing with immediate answers
- Engineered a multi-pass LLM pipeline reaching a saturation-validated codebook of 90 codes, then trained a Python classifier (scikit-learn, spaCy, XGBoost) to map codes to instructor comments at scale, letting the AI agent deliver actionable insights on why performance shifted.
- Rebuilt a legacy SAS-based FAA compliance and safety reporting system into an automated Python pipeline on AWS Lambda, unifying SQL queries and VBA scripting across 10 Teradata and Oracle tables, and cut a full analytics refresh from weeks of manual work to 30 minutes across 150+ tasks and 8 modules
- Authored comprehensive pitch deck presented to 3 leadership audiences that secured unanimous approval for specialized pilot onboarding to replace generalized enterprise program

Possip | Nashville, Tennessee

January 2025-May 2025

Data Specialist Intern

- Architected a Flask and pandas import tool that turns raw Student Information exports into Possip-ready files, auto-matching messy headers, threading validation across workers, and caching learned school name mappings, letting 1,400+ school and district accounts self-serve 5,000+ weekly imports with zero engineering involvement
- Owned end-to-end delivery of Mac (WKWebView) and Windows (WebView2) desktop apps, embedding the Flask app in a Waitress/pywebview shell, using agentic AI tools to resolve packaging issues and ship through GitHub Actions to GitHub Releases, saving stakeholders about 1 hour of support handling per self-served import
- Refactored platform language across 240+ files in Ruby on Rails codebase to create industry-agnostic terminology, expanding Possip's market reach beyond K-12 education through strategic code navigation

PROJECTS

Undergraduate Research | Kinship Networks in Anthropology; AI Literacy for Co-ops

January 2026-Present

- Model social network structures across 1,200+ herders and 77 households using graph-based analysis, quantifying how kinship and mutual-aid networks sustain financial resilience where market-based insurance fails
- Analyze Delphi study data across 5 research sites to identify the AI literacy concepts engineering students need, translating workplace co-op insights into evidence-based curriculum redesign recommendations

ACTIVITIES

Resident Education & Development | University of Cincinnati

August 2024-Present

Resident Advisor

- Manage a residential community of 700 students by serving as primary on-call contact for emergencies, writing conduct reports and coordinating with campus facilities and support services for immediate resolution

AWARDS & HONORS

Distinguished Honors Scholar

April 2024-Present

AVAILABLE FOR INTERNSHIP, SUMMER 2027