

Arogya Upadhyaya

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Software and data engineer with experience in full-stack development, data automation, and analytics. Authorized to work in the U.S. and motivated to apply technical expertise to build scalable systems and deliver measurable impact.

Education

Westminster University, Salt Lake City, UT
BS: Computer Science Major, Applied Math Minor

Expected Graduation: May 2026
Cumulative GPA: 4.0

Experience

Data Engineering Intern
Ken Garff Automotive Group

May 2024 - Present
Salt Lake City, UT

- Automated event-driven Domo dataset refreshes using the Domo API triggered by Snowflake ingestion in IICS, eliminating fixed schedules and cutting manual refresh actions by about 48%.
- Built scalable API pipelines for ManageEngine service desk data and Google Reviews, standardizing delivery to Snowflake for 65+ dealerships and retiring manual exports.
- Led R&D on Snowflake Cortex to ship production use cases including sentiment analysis of Google Reviews and a Confluence-connected RAG assistant, improving knowledge access and analysis speed for business teams.

Research Assistant
Westminster University

December 2023 - Present
Salt Lake City, UT

- [Great Salt Lake Institute](#): Collected and annotated underwater images of brine fly pupae in Roboflow, trained and validated a YOLO detector, achieving about 95% confidence, enabling automated population monitoring workflows.
- [CS4Utah.org](#): Built React dashboards and automated Python analytics, utilizing Pandas and Matplotlib, to visualize statewide high school CS enrollment, incorporating stakeholder feedback to improve accessibility.

Full Stack PHP Developer
Aarya Technology & Management

July 2022 - June 2023
Kathmandu, Nepal

- Designed and developed a modular Office Management System from the ground up, including HR, payroll, project, and membership management workflows, improving operational efficiency and expanding product capabilities.
- Migrated to PHP 8.1, optimized SQL queries, and reindexed databases, significantly improving stability and performance.

Projects

Satellite Visualization (HackUSU 2025)

2025

- Collaborated in a 24-hour Hackathon to build interactive satellite trajectory models with the Fresh JS framework; earned **first place** by demonstrating teamwork under pressure and delivering clear, real-time orbital visualizations.

Bob's Math Adventure

2024

- Completed a semester-long MERN project with a 4-member team, applying the software engineering lifecycle from design to testing; strengthened collaboration and project management skills

Flappy Bird

2023

- Implemented a Java arcade game using Canvas and KeyListener, reinforcing knowledge of event-driven programming, object-oriented design, and memory management via garbage collection

Coffectionary

2022

- Created an iOS coffee reference app in SwiftUI, gaining hands-on experience with Apple's frameworks and building structured, intuitive mobile UIs.

Other Technical Skills

- Languages & Libraries:** Python, JavaScript, TypeScript, Java, C, SQL, PHP, Swift, React, Node.js, Express, Django
- Data & Cloud:** Snowflake, Domo, MongoDB, MariaDB and MySQL, Azure, AWS
- Tools:** Git, Jira, IICS, Roboflow, Intune, Linux, CI/CD, JWT, OAuth, Docker