

# Unish Aryal

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## EDUCATION

### Caldwell University

Caldwell, NJ

Bachelors of Science: Major: Computer Science GPA: 3.79

Expected May 2026

**Award & Honors:** Presidential Scholar & Dean's Academic list

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Organization, Databases, Machine Learning, Programming Languages, Probability & Statistics, Linear Algebra, Discrete Mathematics

## WORK EXPERIENCE

### Software Engineer Intern

Parsipanny, NJ

Jodhpuri Inc.

September 2024

- Built a real-time workplace collaboration app with chat, group video conferencing, file sharing, and authentication using Next.js, Express, and Socket.io, improving internal team communication.
- **Decreased video latency by 90%+** by researching and implementing optimized WebRTC configurations and adaptive streaming techniques.
- Wrote comprehensive unit and end-to-end tests using **Jest** and **Cypress**, ensuring component reliability and stable user workflows.
- Collaborated cross-functionally, proposed architectural changes, and delivered performance improvements ahead of sprint deadlines.

### Software Engineer

Easy Study(EduScrib) Project

Feb 2025 – Apr 2025

- Designed and implemented a **preprocessing pipeline** using ftfy, regex, and NLTK to clean, normalize, and segment unstructured student notes, enabling accurate downstream LLM input for quiz generation.
- Built an automated quiz generation system using the Gemini API and few-shot prompt engineering to convert structured content into multiple-choice question banks; received positive feedback from 90% of users in peer reviews for accuracy, usefulness, and clarity.

### Full Stack Developer

BookStore/Summary Project

Feb 2025 – Apr 2025

- Engineered app where users can upload book PDFs, select specific chapters, and receive chapter-based summaries generated through the Gemini API with custom prompts.
- Implemented presigned URLs for direct S3 uploads, **reducing server load by 60%**, and secured the platform using JWT-based authentication for user-specific access and content handling.

### Database Designer

The Spark – An Online Learning Platform Project

Feb 2025 – Apr 2025

- Designed and implemented a comprehensive database for an online learning platform.
- Utilized normalization technique, achieving 30% query efficiency in the database.
- Technology Used: Oracle, Figma, Draw.io

## LEADERSHIP OPPORTUNITY

### Caldwell University Computer Science Club

Caldwell, NJ

Vice President

April 2024

- Coordinated with multidisciplinary teams to organize Hackathons, workshops, and tech talks, helping to student to acquire knowledge outside of the university courses.
- Led weekly meetings and reported status updates to the club advising team, facilitating transparent and robust ecosystem for the club

## SKILLS & CERTIFICATE

Technical Skill: Python, JavaScript, Flask, Oracle, Machine Learning, Express, Next js, Kubernetes, Docker

Machine Learning Tool: Pytorch, TensorFlow, MongoDB, MySQL

Framework: React, Next js

*References will be furnished upon request*