

# ARSH SINGH

☎ 516-419-7200 ✉ [as4274@cornell.edu](mailto:as4274@cornell.edu) [in linkedin.com/in/arshsingh5/](https://www.linkedin.com/in/arshsingh5/) [🌐 arshsingh.net/](https://arshsingh.net/) [🐙 github.com/Arsh-S](https://github.com/Arsh-S)

## Education

### Cornell University

*Bachelor of Science in Computer Science, Dyson Business Minor for Engineers, AI Minor*

**Expected 2027**

*Ithaca, New York*

## Relevant Coursework

- \*Mathematical Foundations of Computing (Discrete)
- \*Linear Algebra for Engineers
- Object-Oriented Programming and Data Structures
- Multivariable Calculus for Engineers

(\* = in progress)

## Experience

### Unreleased Startup

**December 2024 – Present**

*Software Developer*

*Ithaca, New York*

- Contributed to the development of a peer-to-peer coursework help platform, enabling seamless collaboration between college students.
- Designed and implemented a Google SSO to streamline and improve security on the sign-in process for users.
- Utilized Python, Flask, and MySQL to build and manage the platform's backend infrastructure, enabling seamless data handling and application performance.

### Cornell Digital Tech and Innovation

**February 2024 – Present**

*Developer, CURaise*

*Ithaca, New York*

- Contributing to the development of CURaise, a fundraising platform streamlining finances, analytics, and referrals for student organizations and buyers.
- Collaborating on backend and frontend features to enhance user experience and transaction efficiency.

### Cornell Design and Strategy

**February 2024 – Present**

*Technology Implementation Associate*

*Ithaca, New York*

- Developing an NLP-based sentiment analysis system to extract insights from web-scraped reviews.
- Automating data collection pipelines for real-time analytics and trend forecasting.
- Working with cross-functional teams to apply data-driven solutions to strategic decision-making.

### Future Engineers Academy

**August 2023 – August 2024**

*Founder, Head Instructor*

*Hicksville, New York*

- Founded and led FE Academy, a youth organization focused on STEM education (501(c)(3) status pending).
- Designed and taught interactive STEM lessons to upper elementary and middle school students at no cost.
- Conducted three successful week-long summer sessions at a public library with high engagement.
- Managed social media presence and shared STEM-related content (@futureengineersacademy).

## Projects

### AutoNote | *React, Express, Firebase, OpenAI API*

**November 2024**

- Developed a full-stack web application that summarizes PDF files into Markdown format using OpenAI's GPT API.
- Implemented Google SSO authentication and data storage using Firebase, enabling secure management of uploaded notes and online access.
- Designed a responsive and modern interface using React and Vite, enhancing usability across devices.
- Partially Deployed the application on Fly.io, integrating a scalable backend with Express.

### NFC Attendance System | *Python, Java, DigitalOcean*

**December 2023**

- Developed an attendance tracking system for a high school robotics team, using NFC stickers, a Java Servlet on DigitalOcean, and a Raspberry Pi sensor client with a TKinter UI in Python.
- Integrated with a Web-Scraping Discord Bot to relay attendance data and feature leaderboards to the team.

## Technical Skills

**Languages:** Python, Java, C++, C#, HTML/CSS

**Developer Tools:** Visual Studio Code, IntelliJ IDEA, Git, OnShape

**Frameworks and Libraries:** Flask, SQLAlchemy, React, Firebase

**Technologies and Platforms:** Linux, Unity, Oracle Cloud, DigitalOcean, CAD