ARSH SINGH

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Education

Cornell University   **August 2024 – May 2028**
Bachelor of Science in Computer Science, Dyson Business Minor for Engineers, AI Minor   *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

Ilummu   **December 2024 – Present**
Full-Stack 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 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 Data Strategy   **February 2024 – Present**
Technical Project Lead   *Ithaca, New York*
- Leading technical architecture, data analytics implementation, and team collaboration on high-impact client projects.
- Developing TableTrack, an NLP-based sentiment analysis system to extract insights from web-scraped reviews for restaurant business owners.
- 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.
- Deployed the frontend infrastructure on Fly.io.

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, TypeScript, Java, C#, HTML/CSS, C++
Frameworks and Libraries: React, Next.js, Express.js, Flask, Tailwind CSS, Vite
Technologies: Git, Linux, PostgreSQL, MySQL, Oracle Cloud, DigitalOcean, OnShape