

Aaryan Singh

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EDUCATION

Rose-Hulman Institute of Technology

Bachelor of Science, Computer Science

GPA: 3.7/4.0

Terre Haute, IN

May 2027

Relevant Coursework: Software Development, Object Oriented Programming, Data Structures & Algorithms, System Programming, Digital Systems, Computer Architecture, Web Programming, Operating Systems, Technical Communication

WORK EXPERIENCE

BNC Motors

Bhopal, India

Research & Development Intern

Jun 2024 – Aug 2024

- Streamlined data collection using **Python**, **BeautifulSoup**, and **Selenium**, saving **80 hours/month** across three departments
- Integrated scraped data into company systems via **SQL** and **REST APIs**, reducing operational costs by **1 million** INR annually and strengthening strategic planning and decision-making capabilities
- Implemented scalable solutions in **Java** and **Go**, improving **data accuracy** and accessibility for cross-functional teams

The Coca-Cola Company

Bhopal, India

Data Analyst Intern

Jun 2022 – Aug 2022

- Conducted large-scale **data collection** and analyzed trends and patterns, delivering actionable insights to stakeholders through **Power BI**, **Python**, **SAP** and **SQL**, **reducing** decision-making delays by **90%**
- Designed scalable **data pipelines**, **migrating systems** from **AWS** to **Microsoft Synapse** to streamline procurement.
- Automated data loading** and reporting processes, reducing processing time by 90%, while collaborating with cross-functional teams to develop **KPIs** and dashboards that informed strategic decisions and improved business performance

UNIVERSITY PROJECTS

Rose Reviews - Professor & Course Rating Platform

Feb 2025

- Developed a **full-stack** platform using **React.js**, **Firebase Firestore**, and **Tailwind CSS**, enabling students to submit, update, and search reviews about any course or faculty at Rose and used Firestore for data retrieval and **real-time updates**.
- Integrated Rose-Hulman **SSO authentication**, restricting access to students, and implemented **AI-driven** review analysis using **TensorFlow** and **NLP**, summarizing key insights from student feedback to enhance course and professor evaluation.

Rose Rides

Oct 2024

- Developed a **cross-platform** carpooling **app** for **200+** students using Flutter and React.js, with **Figma**-designed **UI/UX**, **Google Maps API** for ride-matching, and secure Firebase **Authentication** and **PayPal API**, enabling daily transactions
- Built a **scalable backend** with **Node.js** and **Express**, integrated **Discord API** for engagement, and **improved** response times by **25%** using Firebase Cloud Messaging, collaborating with a team of three through **agile methodologies**

TECHNOLOGIES

Programming Languages: Python, Java, C++, Swift, JavaScript, CSS, Go, Rust, C#, Kotlin, MATLAB, RISC-V Assembly

Frameworks & Libraries: PyTorch, TensorFlow, Flutter, React.js, Node.js, Express.js, Angular, Spring Boot, .NET, Qt, Kafka

Tools: SQL, PostgreSQL, MySQL, Firebase, BigQuery, Git, GitHub, JIRA, REST APIs, Jupyter Notebooks

ACTIVITIES

Rose-Hulman Athletics - Senior Game Statistician

Oct 2023 - Present

- Tracked real-time data across 10+ D III sports, updated official records and live stats, and delivered data-driven insights to coaches, improving performance evaluations

Alpha Phi Omega Executive Board - Communications Director

Sept 2024 - Present

- Oversaw weekly communications for 100+ members, coordinated events, recorded minutes and boosted turnout by 15%

Student Affairs Committee - Member of the Reviewing Committee

Sept 2024 - Present

- Contributed to policy reviews, student affairs decisions, and club approvals to enhance campus life and resource accessibility