

Sarvesh Sundaram

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Passionate and innovative student with experience in back-end software engineering and data engineering. Worked with relational databases, cloud-based APIs, server design, scrum methodology. Adept at learning new technologies on the job and strong team player. Currently seeking opportunities focused on back-end or full-stack software engineering work.

EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE (RPI)

Expected May 2025

Bachelor of Science, Computer Science - GPA 3.89/4.00

Relevant Coursework: Computational Vision, Linear Algebra, Probability, Differential Equations, Intro to Algorithms, Foundations of Computer Science, Principles of Software, Intro to Information Technology and Web Systems

WORK EXPERIENCE

CIGNA HEALTHCARE, Bloomfield CT

June 2023 - Present

AI Software Engineer Intern

- Leveraged ChatGPT-4 API, LangChain, and Neo4j to create program that analyzes, extracts, and visualizes join condition relationships between tables in SQL Stored Procs
- Pushed feature into production using AWS, Kubernetes, and Docker to provide clean and reliable data for company-wide applications

Data Engineering Intern

Played key role in designing backend for internal Drug Pricing Application to minimize the cost paid by consumers for drugs

- Collaborated in designing back-end express server API and developed middleware functions to allow front-end to easily request data from price database

Data Analytics & Engineering Team: Optimizing and managing Cigna customer data

- Transferred and re-programmed stored procedures using Teradata, Spark SQL, and Databricks to sort and clean customer data
- Created Proof of Concept that efficiently transfers data from S3 bucket to Delta table on Databricks. Implemented as part of department-wide pipeline for analyzing customer call data to understand how to improve customer experience
- Identified and analyzed source data in existing code allowing migration from servers to cloud databases improving processing efficiency

CENTER FOR MODELING, SIMULATION, & IMAGING IN MEDICINE, Professor: Rahul Rahul, RPI

January 2024 - Present

Computer Vision Undergraduate Researcher

- Implementing video analysis pipeline using OpenCV and PyTorch to provide identification on whether recorded medical procedures are successful

COGNITIVE AND IMMERSIVE SYSTEMS LAB (CISL), Professor: Jonas Braasch, RPI

June 2022 - August 2022

Undergraduate Researcher

- Integrated Google dialogue systems (Speech-To-Text, Text-to-Speech, DialogFlow) into an automated human-chatbot communication interface using Javascript.
- This interface is expected to be used in multiple lab projects, including Virtual Reality Game to learn world languages

COGWORKS LAB, Professor: Wayne Gray, RPI

October 2021 - Present

Undergraduate Research Assistant

- Organized metadata generated from volunteers playing Tetris to gain insights into human's cognitive processes, specifically how they react to the pressures of situations with increasing difficulty
- Helped design and test drive challenge levels of increasing complexity for an experimental game which tracks the correlation between individual cognition and group behavior

INDEPENDENT PROJECTS

August 2019 - Present

- Created Star Wars-themed 3D animations using Blender, using custom wood, skin, and glass shaders and rigging with inverse kinematics

LEADERSHIP

Advising & Learning Assistance Center (ALAC), Learning Assistant Coordinator, RPI

August 2022 - Present

- Co-Leads and Manages team of over 10 Learning Assistants
- Provide academic support and act as liaison between Advising and Academic Services and the undergraduates
- Responsible for assisting freshman acclimate and become successful learners at RPI.

HONORS

Rensselaer Leadership Scholarship, RPI, Troy NY, 2021 - Award covers 40% of tuition and is given to 10% of accepted students

Dean's Honor List, RPI, Troy NY, Fall 2021-Spring 2023

SKILLS: C++, Unity with C#, Python, C, SQL, Java, Linux, Google Cloud Services, Scrum, APIs, Relational Databases. Proficient in Verilog

INTERESTS: Community Service, Hiking, Skiing, Animating, Drawing, 3D Modeling