

## Ryan Rana

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## EDUCATION

### Rutgers University

*Bachelors in Computer Science*

New Brunswick, NJ

Aug. 2024 – May. 2028

**Member/ Former Member of:** USACS(current), Alpha Sigma Phi (national alumni member), RUMAD, Blueprint

## EXPERIENCE

### Centren Health

*Software Engineer*

Nov 2025 - Present

New Brunswick, NJ

clinical transformers, pkpd modeling, large scale data.

### Mesh

*CTO*

May 2025 - Oct 2025

Remote

Led development. Beta reached 300 users. Wound down after testing real-world usage pattern.

### Goldman Sachs

*Possibilities Summit Participant*

Jan 2025 - Jun 2025

Remote

~15% acceptance rate out of 8000 applicants.

### Stem In Place

*President*

Aug 2021 - Aug 2024

Martinsville, NJ

Started as summer instructor, became vp, then president. That year we took signups from 600 to 1500 signups and 20 to 40 instructors.

## SHOWCASED PROJECTS

**Osler:** 3rd Place at RuHealthHack - AI-powered mobile application for hospitalist onboarding efficiency.

Built with Flask backend and RAG system using Google Gemini for intelligent information retrieval.

Features include real-time hospital guidelines access, staff scheduling integration, supply location mapping, and administrative tools for notifications and KPI analysis. Implemented vector embeddings for semantic search and automated content summarization.

**Aura:** Enterprise AI analytics platform for retail management with conversational intelligence. Features multi-step business investigation capabilities through Snowflake data warehouse integration, real-time analytics dashboard, and natural language query processing. Implemented advanced SQL optimization, automated report generation, and predictive analytics for inventory and sales forecasting.

**Helios:** AI-powered haptic navigation device integrating computer vision and natural language processing for object detection and spatial guidance. Developed embedded system using Python, OpenCV for real-time object recognition, NLP for voice command processing, and haptic feedback algorithms. Features proximity sensors and machine learning models for mixed-object detection within close-range environments.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, React, HTML, PHP, SQL, Java, Bash, Swift, Latex

**Developer Tools:** AWS, Node.js, Conda, Framer, Figma, JQuery, XAMPP, OpenCV, MondoDB, MYSQL, Firebase, VIM, Raspberry Pi, Arduino, GIT, CocoaPods, Scikit, Numpy, Pandas, Kaggle, Google Cloud, Bootstrap, Docker, Jira, NPM, Linux, Matplotlib