

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

clinical transformers, pkpd modeling, large scale data.

Nov 2025 - Present

New Brunswick, NJ

Mesh

CTO

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

May 2025 - Oct 2025

Remote

Goldman Sachs

Possibilities Summit Participant

15% acceptance rate out of 8000 applicants.

Jan 2025 - Jun 2025

Remote

Stem In Place

President

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

Aug 2021 - Aug 2024

Martinsville, NJ

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