

## Ryan Rana

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### EDUCATION

#### Rutgers University

*Bachelors in Computer Science*

New Brunswick, NJ

Aug. 2024 – May. 2028

**Activities and societies:** accepted into RUMAD and Blueprint, writer/member @ USACS, 4x hackathons, 2x winner, fraternity recruitment director.

### EXPERIENCE

#### Centren Health

*Medical Software Engineer*

Designing systems for digital twins, clinical transformers pk/pd modelling.

Nov 2025 - Present

NYC

#### Mesh(joinmesh.today)

*Co-founder*

Led development team. Beta reached 600 users. Wound down after testing pmf, and pivoted focus.

May 2025 - Oct 2025

#### Goldman Sachs

*Possibilities Summit*

~15% acceptance rate out of 8000 applicants. Did the engineering tracks. Program for Freshmen.

Jan 2025 - Jun 2025

#### Stem In Place

*President*

Started as summer instructor, but grew 501(c)(3) from 600 to 1500 signups with 20 to 40 instructors.

Aug 2021 - Aug 2024

#### HillsHacks

*Co President*

Annual hackathon with >120 attendants. My highschools flagship event.

Sep 2020 - Feb 2024

#### Populus

*Software Engineer*

UI/UX, Deployment. 4.5k users on fantasy NBA stock app.

Jul 2023 - Sep 2023

Austin, TX

#### JPMorgan Chase & Co.

*Student Software Engineering Intern Program*

Learned how to optimize big data operations. High school program.

Jul 2023 - Aug 2023

Jersey City, NJ

### SHOWCASED PROJECTS

**Osler:** AI assistant for hospitalists that centralizes guidelines, staffing, supplies, and KPIs behind a conversational RAG interface using Google Gemini.

**Aura:** Enterprise AI analytics copilot for retail leaders with conversational access to Snowflake data, automated reporting, and predictive inventory and sales forecasts.

**Robot Deformables:** A complete implementation of a robotic handover system using imitation learning and reinforcement learning, featuring multi-modal sensor fusion (vision, proprioception, audio) and deformable object manipulation.

**Vault:** Secure full-stack workspace for teams with an encrypted message board, role-based file sharing, and task management for auditable collaboration.

### TECHNICAL SKILLS

**Languages:** Python, JavaScript, React, HTML, PHP, SQL, Java, Bash, Swift, Latex, C++, TypeScript, R, Go, Rust

**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, Kubernetes, Terraform, PostgreSQL, TensorFlow, PyTorch