

# Ryan Rana

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## EDUCATION

<b>Rutgers University</b> <i>Bachelor of Science in Computer Science</i>	New Brunswick, NJ Aug 24 – May 28
<b>Leadership &amp; Activities:</b> Tech Head @ Rutgers Google Developers Group; Writer @ USACS; Accepted into RUMAD & Blueprint. <b>Hackathons:</b> 4 competed, 2 wins (Rutgers × Fiserv, RWJ × Oracle).	

## SHOWCASED EXPERIENCE

<b>Centren Health</b>   Medical Software Engineer   New York City, NY	Nov 25 – Present
Building digital twins, clinical AI transformers, and pharmacokinetic/pharmacodynamic (PK/PD) modeling to support precision medicine workflows. Employee #4; systems now deployed across 8 hospital partners.	
<b>Centren Health (SEAL Security Solutions)</b>   Software Engineer   Houston, TX	Nov 25 – Jan 26
Contracted to build a full-stack application integrating vision-language models and vector embeddings for scalable healthcare analytics and compliance workflows.	
<b>Mesh</b>   Co-founder	May 25 – Oct 25
Cofounded and led engineering team; scaled beta to 600+ users. Drove product validation and strategic pivot after PMF testing. Can be seen on <a href="https://joinmesh.today">joinmesh.today</a>	
<b>Goldman Sachs</b>   Possibilities Summit Intern	Jan 25 – Jun 25
Selected for highly selective program (~15% acceptance) for first-year undergraduates; completed engineering track with focus on financial systems and software development.	
<b>Stem In Place</b>   President	Aug 21 – Aug 24
Scaled 501(c)(3) nonprofit from 600 to 1,500 signups and 20 to 40 instructors. Promoted from summer instructor to President; established curriculum, hiring, and operational processes.	
<b>Populus</b>   Software Engineer   Austin, TX	Jul 23 – Sep 23
Delivered UI/UX enhancements and production deployment pipelines for fantasy NBA stock platform; supported 4,500+ active users.	
<b>JPMorgan Chase &amp; Co.</b>   Software Engineering Student Program Intern	Jul 23 – Aug 23
Optimized big data processing pipelines; collaborated with senior engineers on enterprise financial systems. Awarded through competitive high school STEM program.	

## SHOWCASED PROJECTS

<b>Vault</b> : End-to-end encrypted team workspace with RBAC file sharing and auditable task management. <i>1st place, Rutgers × Fiserv Hackathon.</i>
<b>Osler</b> : AI hospitalist assistant aggregating clinical guidelines, staffing, supplies, and KPIs via conversational RAG on Google Gemini. <i>3rd place, RWJ × Oracle Health Hackathon.</i>
<b>Cyphe</b> : Built infinite content engine using Wikipedia to connect topics and using an LLM to fuse Twitter, Reddit, Textbooks, and memes with engagement tracking to deliver seamless, personalized science content.
<b>Robot Deformables</b> : Imitation learning and reinforcement learning for robotic handover; multimodal fusion (vision, proprioception, audio) for deformable object manipulation.
<b>ReforestNYC</b> : Geospatial environmental simulation platform generating licensable eco-scores for real estate integrations; community-centric design.

## TECHNICAL SKILLS

<b>Languages:</b> Python, JavaScript, TypeScript, React, Java, C++, Go, Rust, SQL, Swift, R, HTML/CSS, LaTeX
<b>Tools &amp; Platforms:</b> AWS, GCP, Docker, Kubernetes, Terraform, Git, Jira, Figma
<b>Frameworks &amp; Libraries:</b> TensorFlow, PyTorch, Node.js, Scikit-learn, Pandas, NumPy, OpenCV
<b>Databases:</b> PostgreSQL, MySQL, MongoDB, Firebase, Snowflake