

Ryan Rana

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EDUCATION

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

SHOWCASED EXPERIENCE

Centren Health 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.	
Centren Health (SEAL Security Solutions) 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.	
Mesh 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 joinmesh.today	
Goldman Sachs 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.	
Stem In Place 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.	
Populus 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.	
JPMorgan Chase & Co. 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

Vault : End-to-end encrypted team workspace with RBAC file sharing and auditable task management. <i>1st place, Rutgers × Fiserv Hackathon.</i>
Osler : AI hospitalist assistant aggregating clinical guidelines, staffing, supplies, and KPIs via conversational RAG on Google Gemini. <i>3rd place, RWJ × Oracle Health Hackathon.</i>
Cyphe : 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.
Robot Deformables : Imitation learning and reinforcement learning for robotic handover; multimodal fusion (vision, proprioception, audio) for deformable object manipulation.
ReforestNYC : Geospatial environmental simulation platform generating licensable eco-scores for real estate integrations; community-centric design.

TECHNICAL SKILLS

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