

Ryan Rana

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science

New Brunswick, NJ

Aug 24 – May 28

Leadership & Activities: Tech Head @ Rutgers Google Developers Group; Writer @ USACS; Accepted into RUMAD & Blueprint. **Hackathons:** 4 competed, 2 wins (Rutgers × Fiserv, RWJ × Oracle).

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. *1st place, Rutgers × Fiserv Hackathon.*

Osler: AI hospitalist assistant aggregating clinical guidelines, staffing, supplies, and KPIs via conversational RAG on Google Gemini. *3rd place, RWJ × Oracle Health Hackathon.*

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