

## Ryan Rana

908-873-4657 | [ryanrana04@gmail.com](mailto:ryanrana04@gmail.com) | [ryanrana.com](http://ryanrana.com)

### EDUCATION

---

#### Rutgers University

*Bachelors in Computer Science*

New Brunswick, NJ

*Aug. 2024 – May. 2028*

**Member/Former Member of:** Undergraduate Student Alliance of Computer Scientists, Rutgers University Mobile App Development, Blueprint, Alpha Sigma Phi

### EXPERIENCE

---

#### Populus

*Software Engineer*

Jun 2023 - Sep 2023

*Austin, TX*

Developed the user interface and MongoDB back-end for the Populus Trading App, resulting in a 30% increase in user efficiency. and Integrated the app into the CI/CD pipeline, automating deployments and reducing release time.

#### Mega Hack League

*Software Engineer*

Sep 2023 - Jan 2024

*New York City, NY*

Developed and implemented Front-end and Back-end features for MEGA systems and hackathon events, enhancing user interaction and system performance by 30%. Utilized React and Vue to create dynamic and responsive interfaces.

#### Datanexxt

*Software Engineer*

Jun 2022 - Sep 2022

*New York City, NY*

Developed IT infrastructure using cutting-edge technologies, leading to a 15% reduction in operational costs and a 25% increase in client system agility and optimized infrastructure setup to enhance efficiency across multiple departments.

### SHOWCASED PROJECTS

---

**Mesh:** Enterprise knowledge management platform that transforms unstructured data (documents, meeting transcripts, whiteboards) into queryable knowledge graphs using AI-powered ingestion pipelines.

Implemented OAuth2 authentication, real-time collaboration features, and automated content summarization with vector embeddings for semantic search capabilities. Won first at hackathon hosted by Rutgers X Fiserv.

**Vault:** Secure team collaboration platform built with Flask backend and encrypted file storage. Features include AES-256 encrypted messaging, secure file upload/download with integrity verification, task management system, and role-based access control. Implemented secure authentication, session management, and audit logging for enterprise compliance.

**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