Ryan Rana

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EDUCATION

Rutgers University   New Brunswick, NJ
Bachelors in Computer Science   *Aug. 2024 – May. 2028*

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

EXPERIENCE

Mega Hack League   Sep 2023 - Jan 2024
Software Engineer   *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.

Populus   Jun 2023 - Sep 2023
Software Engineer   *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.

Datanexxt   Jun 2022 - Sep 2022
Software Engineer   *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, Bootstap, Docker, Jira, NPM, Linux, Matplotlib