

# Shantnu Kaushal

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## EDUCATION

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### St. John's University

Bachelor of Science, Computer Science

Queens, NY

Aug 2022 – May 2026

- **GPA:** 4.0
- **Relevant Coursework:** Software Engineering, Analysis of Algorithms, Database Management Systems

## PROFESSIONAL EXPERIENCE

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### Sports Excitement

Apr 2025 – Present

Lead Software Engineer

- Direct engineering efforts to convert complex requirements into production features, ensuring alignment between user experience and platform strategy
- Coordinate frontend and backend integration to improve system performance, code modularity, and long-term scalability for new feature development and platform growth
- Oversee production infrastructure and deployment operations to maintain stable releases and optimize runtime costs through continuous monitoring and CI/CD automation

### NASA L'Space NPWEE

Sept 2025 – Dec 2025

Software Engineer & Researcher

- Designed an algorithmic framework to mitigate Radio Frequency Interference that is theoretically capable of suppressing 20 dB of interference for future NASA lunar astronomy missions
- Proposed a signal processing architecture specifying C++ for low-latency noise cancellation and Python for machine learning integration to optimize real-time data recovery workflows
- Authored a NASA proposal that articulated technology infusion pathways and established alignment with NASA's lunar exploration objectives and scientific priorities

### Zooniverse

May 2024 – Dec 2024

Citizen Scientist

- Produced structured training datasets for machine learning models by annotating wildlife imagery and establishing reliable ground-truth labels for model development
- Enhanced integrity for machine learning pipelines by verifying visual classifications and reducing noise in model inputs, supporting accurate and automated wildlife recognition

## PROJECTS

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### LvlUp – Social Networking Platform

Sports Excitement

- Developing a multi-functional social learning ecosystem that integrates mentorship discovery, interest-based community forums, and live audio networking spaces to foster professional skill acquisition and career growth
- Architecting a robust backend using Node.js and Express, implementing a PostgreSQL database with normalized schemas to ensure data integrity and efficient querying for complex user relationships
- Building a high-performance frontend with Next.js, TypeScript, and Tailwind CSS, delivering a type-safe, component-driven interface that supports real-time interaction and dynamic content feeds

### CareRadar – Clinical AI Command Center

AI Agents Hackathon

- Engineered an analytics system that performs automated patient risk detection and provides clinicians with actionable diagnostic insights through interactive data dashboards
- Integrated OpenAI for medical inference and ClickHouse for high-speed analytical querying, with Datadog MCP providing end-to-end monitoring and reliability across the data pipeline

## TECHNICAL SKILLS

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**Programming & Frameworks:** Python, Go (Golang), C/C++, Java, SQL, TypeScript, FastAPI, Next.js, React

**AI & ML:** PyTorch, Transformers (BERT), Scikit-learn, Pandas, Numpy, Matplotlib

**Tools & Infrastructure:** Git, GitHub Actions (CI/CD), Docker, Postman, Redis, Apache Kafka