Sharvil Limaye

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Education

Rutgers University - New Brunswick **Expected May 2026**
Bachelor of Science in Computer Science and Physics *GPA: 3.75/4.00*

Experience

HubSpot **January 2025 – May 2025**
Software Engineer Intern *Boston, MA*

- Working with PaaS Logging, an internal observability team ingesting, storing, and analyzing 2+ PB of HubSpot log data daily.

General Atomics **June 2024 – August 2024**
Software Engineer Intern *San Diego, CA*

- Developed a message adapter to translate networking requests between ground, air, and sea units for multiple countries using **C#**, **.NET**, **C++**, **MongoDB**, and **Redis**.
- Boosted message accuracy by 25% and improved performance by implementing low latency accumulators in **C++** and replacing Redis with **KeyDB**.
- Built an in-place chat feature for mission analysis software, enabling cockpit communication via separated frontend (**C#**, **XAML**, **WPF**) and backend (**C++**, **IRC Protocol**) microservices.

Neki **May 2023 – Sept. 2023**
Software Engineer Intern *South Plainfield, NJ*

- Created proof of concepts for donations, video uploads, and onboarding redesign for a social platform using **React**, **Node.js**, **Express.js**, and **MongoDB**.
- Integrated **Stripe API** for RBI-compliant donations and **Cloudinary API** for video uploads, doubling donor reach and enhancing functionality.

M-TED Lab (Rutgers University) **June 2023 – August 2023**
Undergraduate Research Assistant *New Brunswick, NJ*

- Visualized sensor design models using **Python**, **Pandas**, and **Matplotlib**.
- Improved model performance by 24% through **Genetic** and **Particle Swarm** algorithms.

Projects

Course Monitoring App | *React, Java, Golang, MySQL, Redis, RabbitMQ, Docker, Kubernetes*

- Built a microservices-based course monitoring platform with web and mobile apps, enabling real-time course tracking and user notifications via **RabbitMQ** and **Redis**-backed caching.
- Developed core services in **Java** and **Golang**, utilizing **gRPC** for inter-service communication, **JWT** authentication, and APIs like Rutgers and **Twilio** for course data and SMS notifications.
- Deployed on **AWS** with **EKS (Kubernetes)** for container orchestration, **NGINX** for load balancing, and **Docker** for service containerization.

Disaster Sentiment Analysis Dashboard | *Python, PyTorch, PostgreSQL, Kafka*

- Built a real-time sentiment analysis pipeline to classify disaster-related social media posts using a custom architecture (Transformers, CNNs, RNNs) and ETL pipelines to process tweets.
- Presented findings at the **MIT IEEE Undergraduate Research Technology Conference**.

Real-Time Data Stream Processor | *C, Linux, Git*

- Developed a scalable **TCP/IP** server for real-time, low-latency **JSON/XML** data processing.
- Designed a pluggable system for type conversions, thread pool processing, and non-blocking I/O.

Technical skills

Languages: Java, C#, Python, Golang, C/C++, SQL, Javascript/Typescript, HTML/CSS
Frameworks/Libraries: Gorilla, Net/HTTP, Spring, JDBC, WPF, Node.js, React, Express.js, PyTorch