

# Raghul Ravi (he/him)

[raghul.roshan@gmail.com](mailto:raghul.roshan@gmail.com) | [rraghul.com](https://www.linkedin.com/in/raghulravi) | +1 (224)-340-7470 | [toraghulravi](https://www.toraghulravi.com)

---

## **SUMMARY**

A product-focused engineer capable of translating business requirements and computational ideas into scalable and maintainable products.

## **EXPERIENCE**

**AI Software & Systems Engineer**, Tonita Inc., New York, United States Jun' 23 - Present

- Implemented strategic optimizations to enhance system performance and reliability through updates to network protocols and adoption of asynchronous design principles.
- Streamlined deployment pipeline architecture and optimized cloud operations, resulting in reduced deployment time and lower infrastructure costs.
- Established and enforced coding standards, conducted regular code reviews, and facilitated knowledge-sharing sessions to improve software quality and promote continuous improvement within the team.
- Led frontend development efforts to enhance user experience and satisfaction.

**Graduate Teaching Assistant**, Northwestern University, Evanston, United States Jan' 23 - Jun' 23

- Instructed CS 310 Scalable Software Architectures in Spring '23.
- Instructed CS 340 Introduction to Networking in Winter '23.

**Software Engineer**, Needl.ai, Bengaluru, India Jun' 19 - Jun' 22

- Single-handedly established the earliest AWS cloud infrastructure, ensuring robust scalability, security, and availability for seamless business operations.
- Managed diverse aspects including search relevance, backend technologies, API design, and DevOps for a complex infrastructure, necessitating rapid acquisition of expertise across multiple technologies.

## **EDUCATION**

**Northwestern University**, Evanston, United States Sep '22 - Jun '23

- Master of Science in Computer Science, minor in Engineering Management
- Project: "Repsy: Replication Made Easy, A platform agnostic and location agnostic Internet Measurement Tool" advised under [Prof. Fabian E Bustamante](#)

**SASTRA University**, Thanjavur, India Jul '15 - Aug '19

- Bachelor of Technology in Computer Science
- Project "Creating a Mixed Reality Experience of Connected Appliances" advised under [Mr. Agrawal Chandrakant](#)

## **SKILLS**

**PROGRAMMING LANGUAGES:** Python, NodeJS, Java, ReactJS, Bash, Racket

**DATABASE MANAGEMENT SYSTEM:** Postgresql, MongoDB, Big Table

**SEARCH ENGINES:** Elasticsearch, Faiss

**CLOUD SERVICE:** AWS, Google Cloud

**CICD:** Git, Docker, Docker-compose, Terraform, Kubernetes

**FRAMEWORKS:** Django, Express

**TOOLS:** Kibana, Github Actions, PGAdmin, Cloudwatch Insights, Notion, Swagger, Postman, Airflow, Locust etc.,

**ARCHITECTURAL PATTERNS:** Event-driven, Microservices, Microkernel, etc.,

## **PATENT**

**Identity-Aware Data Management**

- US Patent # 11921787, granted on March 05, 2024.
- An identity-aware data management helps to generate a social graph for a user across his communication channels by identifying multiple similarity patterns between the user and their contacts.