

# R Avaneesh

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## Experience

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**Software Development Engineer** *Truminds Software Systems* *Bengaluru & Chennai Sep 2023 - Present*

- **Systems**
  - Built a real-time multi-language code dependency graph system (C/C++/Python/Java/Verilog)
  - Indexed **3.5k+** repositories and handled millions of queries across **2400 users**
  - Achieved low-latency retrieval ( **sub200ms–1s**) via optimized storage design
  - Designed ingestion pipeline processing 6GB codebases in 30 mins
- **AI Systems**
  - Built end-to-end LLM-based unit test generation pipeline using GPT, Gemini, LLaMA, and Claude
  - Improved conditional coverage from **50%** → **83%** with **92%** acceptance rate
  - Designed evaluation framework used across 4–6 teams
  - Enabled downstream systems improving accuracy by **7–22%**
- **Protocols / Testing**
  - Developed **47+** **O-RAN** M-Plane test cases using C#, Python, OpenTAP
  - Implemented protocol features (e.g., UDP services, Energy and performance statistics) based on evolving specs
  - Added REST APIs for scalable automation

**Software Engineer Intern** *Truminds Software Systems* *Bengaluru May 2022 - July 2022*

- Built **NER-based GDPR-compliant** name masking system with multithreading optimizations
- Developed web scraping pipelines using Selenium

## Skills

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- **Languages:** Python
- **AI/ML:** LLMs, Transformers, Prompt Engineering, Evaluation
- **Frameworks:** PyTorch, TensorFlow
- **Systems:** Data pipelines for ML, inference workflows
- **Tools:** GCP, Vertex AI, Git

## Projects

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**Dreamscape Symphony**

[link](#) 

- Built and deployed an AI application generating lyrics and TTS from multimodal input (text + image)
- **Technologies:** Python, Streamlit, Hugging Face Transformers, NLP Techniques, TTS models

## Education

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**National Institute of Technology, Calicut** *B.Tech in Electronics and Communications Engineering* *Aug 2019 - May 2023*

- CGPA: 9.69 — Gold Medal
- Leadership: Technical Head, Sanket 2023; Design Head, ECE Association

## Achievements

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- Selected for **Japan-Asia Youth Exchange Program** by Governments of India and Japan.
- **Top 15** in National Children's Science Congress (India)
- **1st place**, Strategize (IIT Madras)

## Languages

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English (Fluent) — Hindi (Fluent) — Malayalam (Fluent) — Tamil (Fluent) — Japanese (N5)