

# M S Nishanth

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## Personal Profile

Software Engineer at F5, India. I am a part of DNS team for the cBIP where I contribute towards GeoIP, DNS Resolvers and Cache for the BIGIP.

## Qualifications

### F5 Innovation

Software Development Engineer

Hyderabad, India

Sep 2020 – \*

### Indian Institute of Technology, Hyderabad

MTech in Computer-Science & Engineering

Hyderabad, India

Sep 2018 – Aug 2020

### University College of Engineering, Anna Univ

BE in Computer-Science & Engineering

Tindivanam, India

Sep 2013 – Aug 2017

## Skills

**Languages** C/C++, Rust, Python, PHP, HTML/CSS, Ansible, PHP, JavaScript.

**Tools** Shell(Bash/Zsh), MLflow, VIM, Wireshark, GDB, Postman,  $\text{\LaTeX}$ , Perforce, Git.

**Soft Skills** Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## Experience

### F5 Innovation

SOFTWARE DEVELOPMENT ENGINEER

Hyderabad, India

Sep' 20 – \*

- ODOH - Developed the DNS resolution via ODOH. Had the responsibility of drafting SDD and understanding customer use-case. crafted the TMA. also included creating the ODOH framework for testing and the HPKE cryptography.
- Security Ninja - Part of the security focal group which advocate for security. Role involves reviewing TMAs and Vulnerability assessment.
- DNS Cache - Analysis and improvements to TMM Caching. The performance of TMM improvisation to help with service provider use cases.
- Unbound Enhancements - Integrate test the new unbound enhancement features (PREFETCH, SERVE\_EXPIRED and MIN\_RTT) towards validating-resolver, net-resolver.

### Oblivious DNS-Over-HTTPS

GITHUB.

- A ODOH Lib written in python framework. A fast reliable lib written to communicate DNS on the wire using the latest standard of communication model to ensure Privacy and Secrecy.

### OWASP TOP10 ML

OWASP

- I contribute in a Global community which focuses on addressing the Attacks and Mitigation possible on the ML models.

## Honors & Awards

Sep 23 **1st**, Technovote'23 CatchTheFlag, F5

May 23 **BeF5 Award**, F5

Mar 23 **3rd**, Security Hackathon. Presented eBPF Solution, F5

2018 **99.2% percentile**, GATE

## Co-Curricular

Aug' 22 – \* **Security Ninja**, Responsible for TMAs. Materially help with F5's SDLC by helping teams write and review TMAs, by Advocating for secure design.

F5

Feb' 21 **Be-F5 Day Organizing Committee**, Shared responsibility in organizing of #BeF5 day to conduct various events and sole responsibility of making and production of video-premiere for the Event.

F5, Hyderabad

2018 – 20 **Teaching Assistant**, TA for courses on Foundations of ML and Applied ML where the role involves creating, grading and evaluating assignments.

IIT Hyderabad