

# Srinidhi Nagendra — Résumé

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## Experience

- **Amazon Web Services** **Paris, France**  
*Applied Scientist Intern* *June 2024–August 2024*
  - Building code synthesis tools using LLMs to address reliability concerns in S3. (Programming Languages - Python, Java)
- **IRIF** **Paris, France**  
*Researcher* *Sept 2021–Nov 2024*
  - Working on developing new automated reasoning techniques to ensure reliability of distributed system implementations.
- **Unacademy** **Bangalore**  
*Software Development/Reliability Engineer* *May 2018–July 2018*
  - Built CI/CD pipelines for new services using Terraform and Ansible to deploy to AWS.
  - Built platform libraries in Go to standardize code structure across the organization.
- **BookMyShow (Bigtree Entertainment)** **Bangalore**  
*Software developer* *Sept 2016–April 2018*
  - Backend feature development, site reliability engineering for movie ticketing service (Go, Python, JavaScript, C#, Docker, Ansible)
- **Zoho** **Chennai**  
*Member of Technical Staff* *May 2016–Sept 2016*
  - Deployed 2 new features for a web user interface - interactive code completion for formulas and interactive maps for visualization - using Leaflet JS, Mapbox, D3, Peg JS.

## Education

- **Universite Paris Cite (IRIF), Chennai Mathematical Institute** **Paris, Chennai**  
*PhD, Automated Testing of Distributed Protocol Implementations* *2020–2024*  
Advised by **Constantin Enea (LIX, Ecole Polytechnique), Mandayam Srivas (CMI)**
- **Chennai Mathematical Institute** **Chennai**  
*M.Sc. Computer Science, Graduated with a Medal of Excellence* *2018–2020*
- **Amrita University** **Bangalore**  
*B.Tech Computer Science and Engineering* *2012–2016*

## Skills and Technologies

- **Formal methods** - TLA+, Ivy
- **Distributed protocols** - Experience building and model checking - Raft, Tendermint, PBFT, Etcd
- **Programing languages** - Golang, Python, Java, C#
- **Site Reliability Engineering** - Terraform, Kubernetes, Helm charts, Docker, Ansible, Jenkins Pipelines