

Srinidhi Nagendra — Résumé

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Experience

- **Amazon Web Services** **Paris, France**
Applied Scientist Intern *June 2024–Ongoing*
Building code synthesis tools using LLMs to improving reliability of S3. Programming Languages - Python, Java
- **IRIF** **Paris, France**
Researcher *July 2020–Ongoing*
 - Developing new techniques and building frameworks to ensure reliable distributed systems.
 - Experience dealing with consensus implementations - Etcd, Ratis, Blockchain algorithm implementations - Tendermint, BFTSmart.
 - Programming languages used - C, C++, Java, Go, Python
- **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.
 - Experience dealing with Jenkins pipelines, Cloudwatch Logs, Amazon EKS.
 - Built platform libraries in Go to standardize code structure across the organization.
- **BookMyShow (Bigtree Entertainment)** **Bangalore**
Software developer *Sept 2016–April 2018*
 - Incorporated new features and maintained backend services (Go, Python, JavaScript, C#) that power movie ticketing for millions of customers in Indonesia.
 - Transitioned internally to site reliability engineering (DevOps) role to maintain cloud infrastructure with AWS using 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

- **Chennai Mathematical Institute, Universite Paris Cite (IRIF)** **Chennai, Paris**
PhD, Automatic testing of distributed systems implementations *2020–Ongoing*
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 systems** - Raft, Tendermint, PBFT, Etcd
- **Software development** - Backend development in Golang, Python web frameworks
- **Site Reliability Engineering** - Terraform, Kubernetes, Helm charts, Docker, Ansible, Jenkins Pipelines