

Srinidhi N | Résumé

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Education

Academic Qualifications.....

- **Amrita University** **Bangalore**
B.Tech Computer Science and Engineering , CGPA of 8.91/10 **2012–2016**
- **Chennai Mathematical Institute** **Chennai**
M.Sc. Computer Science, CGPA of 9.41/10 **2018–2020**
- **Chennai Mathematical Institute, University of Paris** **Chennai, Paris**
PhD, Distributed Algorithms **2020–2024**

Notable Projects.....

- **Smart contract verification in Libra blockchain**
Built a tool which verifies smart contracts written in Move language (as introduced by Libra) against properties such as integer overflow/underflow. Modelled the semantics of Move bytecode instructions along with semantics of the virtual machine that executes these instructions.

Masters thesis.....

Distributed algorithm testing

Testing Epaxos distributed consensus algorithm using state of the art PCTCP(Probabilistic Concurrency Testing with Chain Partitioning) testing method. This involves instrumenting Epaxos in an existing implementation of PCTCP and analyzing the outcome.

Previous Employment

- **Zoho Corporation** **Chennai**
Intern/Member technical staff **Feb 2016–Sept 2016**
As an intern I worked on developing a parser for interactive suggestions to query a table. Later worked on developing a user interface for visualizing charts based on regions of a map using Javascript
- **BookMyShow (Bigtree Entertainment)** **Bangalore**
Software developer **Sept 2016–April 2018**
Was responsible for the development and maintenance of microservices that provide ticketing services to customers in Indonesia. Later moved on to cloud infrastructure maintenance with AWS and continuous delivery. Technologies used were Docker, Ansible, Python web frameworks
- **Unacademy** **Bangalore**
Software Development Engineer **May 2018–July 2018**
Pursued a DevOps role and set up a continuous delivery pipeline to deploy services to AWS cloud using Terraform and Ansible. Developing libraries in Golang for use within the organization.

Workshops

- **SAT, SMT workshop**
December 2019, IIT Bombay
Presented a poster on smart contract verification in the Libra blockchain. The workshop consisted of talks related to advances in SAT, SMT solvers and techniques used for verification along with hands on sessions.