

# J M Soorya Narayan

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## EDUCATION

### NIT TRICHY

B.Tech in Computer Science and Engineering | 2014 - 2018

### MES INDIAN SCHOOL

Grad. March 2014 | Doha, Qatar  
Best Outgoing Student

## LINKS

Github:// [sooryan](#)

LinkedIn:// [soorya-narayan-jm](#)

## COURSEWORK

Algorithms  
Data Structures  
Operating Systems  
Computer Architecture  
Networks  
Databases  
Compilers  
Artificial Intelligence

## SKILLS

### Languages

Python • C • C++

### Intermediate

Haskell • JavaScript • Java • Bash  
• SQL •  $\text{\LaTeX}$

### Web

HTML5 • CSS • jQuery • Flask

### Software

Git • Emacs • Eclipse • gdb • Hg

## AWARDS

2015, **top 10**

inGenius Hackathon, Bangalore

2014, **Finalist**

Indian National Mathematics Olympiad

2013, **top 50/17000**

Euclid Math Contest, University of Waterloo, Canada

2013, **People's Choice Award**

Art Exhibition @ Mathaf, Museum of Modern Art, Qatar

2013, **Finalist**

Indian National Informatics Olympiad

## EXPERIENCE

### AMAZON DEVELOPMENT CENTER, INDIA

Software Development Engineer Intern | May - July 2017 | Address Intelligence and Experience team

- Worked on an internal tool to modify and interact with GAM, a structured hierarchical data store of customer addresses
- Setup an elasticsearch cluster with address data and made a web-based UI to interact with the cluster
- Worked with Java, Spring, AWS S3 and wrote unit tests with Junit and PowerMockito
- Practised Agile and Scrum in 2 week sprints
- All code was reviewed and successfully pushed to production

### MOZILLA WINTER OF SECURITY

Student Developer | Oct 2016 – April 2017 | Mozilla Security, NSS

- The project involved implementing **BLAKE2** and **Argon2** in **C** for the NSS Cryptography libraries, which are used in applications like Mozilla Firefox and Google Chrome
- One of the **twelve** teams all over the world to be selected as a part of Mozilla's Winter of Security Initiative 2016.
- The wiki for the project is at <https://wiki.mozilla.org/NSS/ARGON2>

### HASKELL SUMMER OF CODE

Software Developer | Jun – Sep 2016 | [haskell.org](http://haskell.org)

- Worked on **Hackage**, the Haskell community's central package archive of open source software
- Implemented tagging and redesigned the search algorithm
- Rewrote the reverse-dependencies feature to make it more memory efficient
- All code was reviewed and pushed to production
- Summary here <http://sooryanarayan.me/blog/hsoc-testimonial>

## PROJECTS

### CODE CHARACTER

- An AI programming challenge for Pragyan '17, the Int'l Tech festival of NIT Trichy, where players, using a high level API provided, control troops in a real-time strategy simulation
- Part of the team that designed the simulator, a multithreaded C++ application that handles the main game state as well as the pathplanners, which use graph searching and steering behaviours

### FLAKES | <http://github.com/sooryan/flakes>

- A tiny 32 bit Kernel implemented in C
- It simply paints the screen a color of your choice and writes text to screen

### INTO THE LABYRINTH | <http://festember.com/~soorya>

- A maze based video game built with HTML5 and JavaScript for Festember 2015, the national level cultural festival of NIT Trichy
- Received over 3,900 plays