

**Nihala Karapoola**  
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#### ACADEMIC DETAILS

Examination	Institute	Year	CPI/%
BTech(Computer Science and Engineering)	National Institute Of Technology Karnataka	2019	6.75
Pre-University(CBSE)	Delhi Public School, Bangalore South	2015	95.8
Matriculation(CBSE)	Delhi Public School, Bangalore South	2013	10 CGPA

#### TECHNICAL SKILLS

- **Languages** : C, C++, JAVA, Python, HTML, MySQL
- **Tools and Frameworks** : Git, MATLAB, TurboC++, Google testing, ArgoUML, Eclipse,  $\text{\LaTeX}$ ,.

#### INTERNSHIP

- **Analysis of the parameters that identify the critical/vulnerable nodes in a computer network.**  
 Deduced parameters determining the important node in a network and compared the results obtained from closeness centrality, betweenness centrality and random attack traffic generation on simulation of real world network.  
**Technologies used** : JAVA, Eclipse, Wireshark.  
**Interned at** : RISE Lab, Indian Institute of Technology Madras.

#### PROJECTS

- **Blood Bank Management System:** Program interface which maintaining all the information pertaining to blood donors, different blood groups available in the blood bank and manage exchanges between the hospitals and the Blood Bank.  
**Technologies Used:** C++, Testing done using CPP Unit.
- **Operating System Simulator:** A graphical user interface to simulate an Operating System and all of its functionalities. Worked on implementing scheduling algorithms.  
**Technologies Used:** HTML, CSS, Javascript, Python, C
- **N X N Matrix Calculator:** Application to perform operations and solving of linear equations using Matrices. The project implements functions under graphics.h using C++ Programming Language.  
**Technologies Used:** C++
- **Visualization of Mathematical Functions using C++ Programming language:** Program to visualize mathematical function using C++ An application to simulate a graph plotter for any given mathematical function entered by the user. The project implements functions under graphics.h using C++ Programming Language.  
**Technologies Used:** C++

#### AWARDS AND RECOGNITION

- Event Manager and Executive Member **The Institution of Engineers, NITK Chapter**
- Secured **All India 99.17 percentile** in the Class 12 CBSE Examination.
- Secured **3rd position in the Global level** under 'Write Stuff Category' of TATA World Children's Competition 2013

#### EXTRA-CURRICULAR

- Publicity Committee, Engineer 2015(Technical fest of NITK)
- Marketing Committee, Incident 2016(Cultural fest of NITK)