

Amith Bhat Nekkare

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Address: #128, Vindhya Block, NITK, Mangaluru, India

EDUCATION **B.Tech in Information Technology, Third Year** 2018-22
[National Institute of Technology Karnataka, Surathkal](#)
• CGPA : **8.28**/10 (August 2020)

Class 12 - [Our Own English High School, Sharjah\(Boys' Branch\)](#) (CBSE) - 96% 2017-18

Class 10 - [Our Own English High School, Sharjah\(Boys' Branch\)](#) (CBSE) - 10.0 CGPA 2015-16

TECHNICAL SKILLS • **Languages:** C, C++, Java, Python.
• **Tools/Frameworks:** MySQL, STL.
• **Relevant Coursework:** Data Structures and Algorithms-I, Data Structures and Algorithms-II, Object Oriented Programming, Operating Systems, Database Systems, Computer Communication and Networking.

SELECTED **Optimal Exam Scheduling Algorithm** 2020
PROJECTS

- Implemented an exam scheduling algorithm using node graph colouring in Python.
- The algorithm outperforms the Toronto benchmarks for most data sets.

Forest Fire Detection using Image Processing 2019

- Wrote a program to automatically detect forest fires by applying image processing techniques such as thresholding. Implemented in Python using Numpy and OpenCV libraries, among others.
- Can detect an average of 90%-92 % of fires in an image.

Question Paper Generator 2019

- Designed and built a Java application to automatically generate question papers. The questions are randomly chosen from a SQL database.
- Provisions for test difficulty customisation and automatic mailing of generated question paper to recipients have also been added.

ACCOMPLISHMENTS • Scored a perfect 2400 in the SAT Subject Tests conducted by the College Board, USA.
• Selected for the Duke TIP Talent Search program in 2013.

EXTRA • First in regionals and third in the state finals in the TCS Tech Bytes, 2020.
CURRICULAR • Member of the Literary, Stage and Debating(LSD) Club.
ACTIVITIES