

Amith Bhat Nekkare

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EDUCATION **B.Tech in Information Technology, Third Year** 2018-22
[National Institute of Technology Karnataka, Surathkal](#)

- CGPA : **8.28**/10 (August 2020)
- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Database Systems, Computer Communication and Networking, Automata and Compiler Design.

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

SKILLS

- **Languages:** C, C++, Java, Python, SQL.
- **Tools/Frameworks:** MySQL, STL.

SELECTED PROJECTS **[Optimal Exam Scheduling Algorithm](#)** 2020

- 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 90%-92 % of fires in an image on average.

[Multi-Client LAN Chat Application](#) 2019

- Built a Java command-line chat application to view, send, and receive text messages, files and images to computers connected on the LAN using sockets. The application utilizes a client-server model.
- Users are required to create an account and log in to view messages. Account passwords have also been encrypted for security purposes. Provisions for sending messages to multiple accounts at once have been added.

[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 CURRICULAR ACTIVITIES

- First in regionals and third in the state finals in the TCS Tech Bytes, 2020.
- Executive Member of the Literary, Stage and Debating(LSD) Club.