



NIKHIL YADAV

Roll No.:11710456

B.Tech - Electronics and Communication Engineering

National Institute Of Technology, Kurukshetra

+91-9417232359

ynikhil1999@gmail.com

Github | Portfolio

LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	NIT Kurukshetra	8.92 (Current)	2017-Present
Senior Secondary	CBSE Board	93.4%	2017
Secondary	CBSE Board	10.00	2015

TECHNICAL SKILLS

- **Programming:** C++, Data Structures and Algorithms *Proficient*
- **Frontend Development:** HTML, CSS, Bootstrap, JQuery, JavaScript *Beginner*
- **Backend Development:** Node.js, Express, MongoDB *Beginner*

PROJECTS

- **Pathfinding Algo-Visualiser** *Website*
 - Developed **JavaScript** application for visualizing pathfinding **Graph Algorithms** on 2D grid using animations
 - Implemented **DFS** and **BFS** algorithms with functionality of restricted cells, shortest path and execution time
- **Tour Managing API** *Github*
 - Developed a RESTful API using **express** ready to be used by front-end engines to access tour stats in real time
 - Used **mongoose** model as wrapper around schema and to provide an interface to database for **CRUD** operation
 - Implemented data filtering techniques such as sorting, aliasing and aggregation to enroute popular API endpoints
- **User Authentication API** *Github*
 - Built a RESTful API using **express** on **mongoose** model to provide login, logout and password reset functionality
 - **Passport-jwt** strategy was used to acknowledge only verified and authorised users to access protected routes
 - Front-end to this RESTful API was built on **Jade** templating engine and **Sendgrid** was used a mailing service
- **Budget Keeper Application** *Github*
 - Developed **JavaScript** application to calculate budget based on a list of income and expenditure
 - Implemented features to add or remove list items and to display percentage share of every expense
- **Speed Reader** *Github*
 - Developed an **web-application** using **JQuery Mobile** and **JavaScript** which displays the user input paragraph word by word at an adjustable speed and font size along with the functionality of a responsive progress bar
- **Sudoku Solver** *Website*
 - Created a sudoku solver application using **JavaScript** and **CSS** which fetches a new puzzle using external API
 - Implemented solver function using **recursion** and **back-tracking** algorithms to render the solution of the puzzle

ACHIEVEMENTS

- Solved more than **800** algorithmic problems across various coding platforms like CodeForces, SPOJ, GFG and UVA.
- Obtained **97.78** percentile in JEE Mains 2017 out of **1.2 million** students.
- Secured 2nd overall position at school in 12th grade, and was awarded with AWES scholarship.

EXTRA-CURRICULAR ACTIVITIES

- **Event Coordinator of SAC Students Activity Club:** Negotiated with sponsors, Ideated and executed events attracting participants from various colleges in the annual cultural flagship event **Confluence**.
- **Core team member of SAARC Security and Anti-Ragging Committee:** Facilitated smooth flow of events by managing crowd and maintaining discipline during intercollegiate fests, **Confluence** and **Techspardha**.
- Successfully completed **NCC A grade** junior division certificate under 2nd HR battalion and attended two **ATCs Annual training Camps** and got awarded with the **best-cadet** trophy for exceptional drill performance.
- **Volunteer at Navjyoti India Foundation**, a NGO which works for amelioration of students belonging to under-privileged sections of the society, and made online video tutorials for mathematics problems