



BARATH KUMAR S

Electronics and Communication Engineering
National Institute of Technology Tiruchirappalli, India

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EDUCATION

National Institute of Technology Tiruchirappalli

B.Tech - Electronics and Communication Engineering

(2018 - Present) CGPA : 9.04

RSK Higher Secondary School Tiruchirappalli

Science, Mathematics and Computer Science

AISSE (GRADE 12) : 94.2%

AISSE (GRADE 10) : CGPA 10/10

SPECIAL ACHIEVEMENT

- Started **learning and working with computers** since the **age of 2**. It was **appreciated** by various organizations and Institutes and **Daily newspapers** like 'The Hindu', 'The Indian Express' and the regional newspapers like 'DailyThanthi', 'Dinamalar', 'Maalaimalar', etc., had written articles expressing their appreciation.
- Was comfortable with the syllabus of **Anna University—Computer Science** First Semester courses at the **age of 5**.
- Appeared** in a **Television programme** called 'Makkal Arangam' to receive appreciation from Actor-Director Dr. Vishu for being a Computer whiz-kid at the **age of 8**.

LEADERSHIP EXPERIENCE

SCHOOL PUPIL LEADER ~ RSK HR SEC SCHOOL

- Served as the **elected** School Pupil Leader for **3 years** leading a set of **1000 students**. I was responsible for organizing the school's sports, annual and teachers day programmes and worked as the representative for the student community. I was the **only student** who had the chance to work as **SPL for 3 years** since the establishment of the school which is around 54 years.

LITERARY & DEBATING ASSOCIATION SECRETARY

~ RSK HR SEC SCHOOL

- Conducted weekly events during the 11th grade when I served as the LDA Secretary. Selected and took active students to inter-school competitions. Won various prizes in the cultural events conducted by other schools.

TECHNICAL SKILLS

LANGUAGES : C++ , C, Python, HTML, Javascript, Go, Java, R, ArduinoIDE

MULTIMEDIA : Photoshop, CorelDRAW, InDesign, Flash

FAMILIAR WITH: Git, Bash, Xilinx, Jupyter, SQL, MongoDB, Firebase, Flask, Jinja

FRAMEWORKS : Bootstrap, ExpressJS, ReactJS
PACKAGES : OpenCV

ACHIEVEMENTS

- Obtained an **All India Rank of 90** (out of approximately **10,000** students) in the **Unified International English Olympiad**.
- Developed a **Smart Energy Meter** with **IoT** capabilities aimed to monitor electricity consumption in households in Realtime and thus emerged as the **only-freshers team** to become **finalists** in Sangam '19 (Pragyan—Technical Festival of NIT Trichy).
- Received **Elite Topper Certificates** in two **C programming** courses one from IIT Kharagpur and other from IIT Kanpur organized by NPTEL.
- Emerged as the winner in '**Electrolution**' - a **circuit designing** competition using microcontrollers conducted by Pragyan -International level Technical festival of NIT Trichy.
- Completed the Hacktoberfest Challenge 2019 which is related to **OpenSource Contributions**.
- Received a **District rank of 3** in **Spell Bee contest** and was one of the very few to get selected for participating in the State Level Contest.

WORK EXPERIENCE

RESEARCHER | WEB DEVELOPER ~ SPIDER R&D CLUB, NIT TRICHY

- Contributed to **4 Web Development projects** within **four months**, which includes the International Relations website and Technical Council website for NIT Tiruchirappalli.
- Organized a workshop** and **mentored 200+ freshers** to develop a Music Player Web App similar to the '**Spotify**' from scratch.
- Participated in many **knowledge sharing sessions** including **DBMS, Server management, working with Firebase**.

PROJECTS

WEB DEVELOPMENT

Spider Site | ReactJs, MaterialUI

Worked on the official website for Spider – the premium R&D club of NIT, Trichy. It displays details of the various profiles within Spider, bio-data of each member currently in Spider as well as the different projects undertaken by Spider. Website link: <https://spider.nitt.edu/>

Internation Affairs Site NITT | Bootstrap, JQuery

Active in an ongoing project to create a site for the NIT administration for the Internation Affairs. It displays various information regarding the institutes global relations and new notifications.

AI_Doctor | Bootstrap, Python, Flask

Built an interactive site for the live updates of doctor availability in the NIT Campus Hospital so that students can be benefited. It allows the user to book appointment with a doctor using either voice assistant or normal typing. Used Python, Flask, DialogFlow (for NLP). It also has the option to alert the student regarding appointed schedule changes.

Orientation Program App | Go, MySQL, Flutter

Built the Backend for the Spider Orientation Program App through which the present members of the Tech Club mentor junior students and review their task submissions.