

# Sarthak S Kumar

Portfolio Website | LinkedIn | GitHub | CoderRank | HackerRank

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Full Stack Developer | Graphic Designer | Freelancer | Open-Source Advocate | DSA | IoT & Automation

## INFORMATION

|                    |   |
|--------------------|---|
| <b>Description</b> | A second-year computer science student with experience in programming outside university courses and the ability to expand skillset as needed. Strong organizational skills with success in managing academic projects and college events. A well-rounded team player who realizes the power of community. I am aspiring to apply my knowledge gained from coursework and projects to real-world challenges by completing a challenging technical project as a STEP intern at Google. |
| <b>Hobbies</b>     | Volunteering, Networking, Programming, Web Development, Hardware and Electronics, Problem Solving   |

## EDUCATIONAL QUALIFICATION

|                            |  |               |                       |
|----------------------------|--|---------------|-----------------------|
| B.Tech, CSE                | PES University Electronic City Campus, Bengaluru | 7.14 CGPA     | 2021 - (2025 Passout) |
| Class XII, Karnataka Board | Expert PU College, Mangaluru                     | 98.83% (PCMC) | 2021                  |
| JEE Mains                  | Expert Coaching Classes, Mangaluru               | 95.74%ile     | 2021                  |
| Class X, CBSE              | Sharada Vidyanikethana Public School, Mangaluru  | 95.4%         | 2019                  |

## SKILLS

|  |  |
|--|--|
| Full Stack Development<br>IoT and Automation<br>Design<br>Programming Languages<br>Tools and Platforms | <ul style="list-style-type: none"><li>HTML, CSS, JavaScript, MERN, Django, Flask, NextJS, Tailwind, Bootstrap, JQuery, Redux, Redis</li><li>Raspberry Pi, Arduino, Hardware &amp; Electronics, ThingSpeak, Blynk</li><li>Photoshop, Premiere Pro, Canva, Figma, Material UI, Chakra UI</li><li>C++, C, Python, Embedded C</li><li>VS Code, Codepen, Netlify, Vercel, Git, GitHub, Heroku, Codepen, Cloudflare</li><li>Markdown, Regex, SVG, GitHub Actions</li></ul> |
|--|--|

## WORK EXPERIENCE

|   |                                 |
|---|---------------------------------|
| <b>Full Stack Developer, Each-One Platform</b>  | <i>Nov 2022 - Present</i>       |
| <ul style="list-style-type: none"><li>Working as a full stack developer for a mentor-mentee matching platform</li></ul>   |                                 |
| <b>Web Developer &amp; Graphic Designer, Shunya Math Club PES University</b>  | <i>Mar 2022 - Present</i>       |
| <ul style="list-style-type: none"><li>Developed club website (<a href="http://shunyapes.com">shunyapes.com</a>) and currently maintaining club website for periodic changes and bug fixes.</li><li>Designing content (Posters, Banners, Cards etc), and material to market events and programmes to colleges and organisations.</li></ul> |                                 |
| <b>Founder, Fusion Community</b>  | <i>May 2021 - Present</i>       |
| <ul style="list-style-type: none"><li>Conducted workshops and training sessions for 500+ students from different age groups on different tech stacks and languages. Organized competitions and events for tech enthusiasts in collaboration with other developer communities and brands.</li></ul>  |                                 |
| <b>Boffin Builder, Blix Robotix</b>   | <i>May 2021 - December 2021</i> |
| <ul style="list-style-type: none"><li>Built Boffin Kit prototypes for Blix Robotics. Contributed 5 working models to the kit catalogue and gained exposure to Pictoblox and Embedded Systems. Helping young minds develop and innovate for good.</li></ul>  |                                 |

## INTERSHIPS

|   |                                  |
|---|----------------------------------|
| <b>Web Developer at Cisco ThingQbator, Bengaluru</b>  | <i>September 2022 - Present</i>  |
| <ul style="list-style-type: none"><li>Working for CAPA (Cure and Prevent Anemia) Project, under Cisco ThingQbator. Designing and developing a full stack multi-page website for the cause with interactive UI and a range of user functionalities.</li></ul>                      |                                  |
| <b>Campus Mantri at GeeksForGeeks, Bengaluru</b>  | <i>Jun 2022 - Present</i>        |
| <ul style="list-style-type: none"><li>Promoting and cultivating a technical culture among my peers at the university and exchanging creative ideas. Organizing DSA coding events, DSAsessions, workshops, and seminars for tech enthusiasts.</li></ul>                            |                                  |
| <b>Major Project Intern at IEEE RAS PES University, Bengaluru</b>   | <i>April 2022 - Present</i>      |
| <ul style="list-style-type: none"><li>Building a robot locomotive that automates the process of soil testing for an agricultural field, thus providing an interface capable of providing smart guidance to a farmer for better yield and output.</li></ul>                        |                                  |
| <b>Ninja Entrepreneur at Coding Ninjas, Bengaluru</b>   | <i>February 2022 - July 2022</i> |
| <ul style="list-style-type: none"><li>Actively participated in events, contests and coding programmes. I was a part of opportunities which helped me refine and showcase my skills. Helped achieve the mission of continuously innovating to train upcoming developers.</li></ul> |                                  |
| <b>Campus Manager at CS Mock, Bengaluru</b>   | <i>February 2022</i>             |
| <ul style="list-style-type: none"><li>Performed branding tasks and improvisations. Hands-on with online reach enhancement techniques. Enhanced my leadership skills, content creation, teamwork, and technical skills. Active performer of the week awardee.</li></ul>            |                                  |

## ACADEMIC PROJECTS

|   |                 |
|---|-----------------|
| <b>Note Taking Web App (Web Technologies Coursework, Sem 3)</b>   | <i>Nov 2022</i> |
| <ul style="list-style-type: none"><li>Implemented using MERN, had real-time CRUD operations for notes added by the user.</li></ul>  |                 |
| <b>Secure and Efficient Data Transmission using Compression &amp; Cipher Algorithms (C Programming Coursework, Sem 2)</b>   | <i>May 2022</i> |
| <ul style="list-style-type: none"><li>Made use of Huffman Encoding, Ceasar Cipher and Playfair Cipher Algorithms to compress and cipher data strings when being transmitted from one user to another.</li></ul> |                 |
| <b>Solving Constraint Satisfaction Problems using Recursive Algorithm Tool (Python Coursework, Sem 1)</b>   | <i>Mar 2022</i> |
| <ul style="list-style-type: none"><li>Used a backtracking and a stochastic algorithm to mimic Rat in a Maze and Sudoku games, using Tkinter framework.</li></ul>  |                 |

| TECHNICAL PROJECTS  |                          |
|---|--------------------------|
| <b>Phoenix VTOL (Vertical Take-off and Landing UAV)</b>   | <i>Nov 2022</i>          |
| <ul style="list-style-type: none"> <li>Built a prototype UAV which combines advantages of multiple UAVs into one. It's backed with a progressive web app that facilitates deliveries to remote and unreachable areas. Finds application in emergency supplies like blood bags and medication</li> </ul> |                          |
| <b>CAPA (Care and Prevent Anemia) Website</b>   | <i>Aug 2022</i>          |
| <ul style="list-style-type: none"> <li>CAPA is a team working towards finding solutions to Anemia that is bothering 50% of India's women population, 'Anemia'.</li> <li>Designed and developed a multi-page website for the cause with interactive UI and a range of user functionalities.</li> </ul>   |                          |
| <b>Trendy Bites Snack Website</b>   | <i>May 2022-Aug 2022</i> |
| <ul style="list-style-type: none"> <li>Developed a website for Trendy Bites that manufactures a wide range of vacuum fried products.</li> <li>Carried out the website UI design, Wireframing and Static Development. Its SEO and Lighthouse optimised.</li> </ul>                                       |                          |
| <b>Shunya Math Club Website</b>   | <i>Jul 2022</i>          |
| <ul style="list-style-type: none"> <li>Developed a website for math club at PES University. Worked with VantaJS, AosJS libraries. Uses google analytics and includes animations with an accessible UI. The website is SEO and Lighthouse optimised.</li> </ul>  |                          |
| <b>AgriBot Prototype 1</b>  | <i>Aug 2019-Oct 2020</i> |
| <ul style="list-style-type: none"> <li>Built the 1st prototype of a locomotive that automates the process of soil testing for an agricultural field, thus providing an interface capable of providing smart guidance to a farmer for better yield and output.</li> </ul>                                |                          |
| <b>Swachh Bin Prototype 1</b>   | <i>Aug 2017-Mar 2018</i> |
| <ul style="list-style-type: none"> <li>Swachh Bin 1.0 is a prototype dustbin that can be kept in a vehicle. It is a unique bin as it can compress waste added to it and make space for more waste to be added.</li> </ul>   |                          |

| CERTIFICATIONS  |                 |
|---|-----------------|
| <b>React - Guide with React Hook Redux, Udemy</b> ( <a href="#">View Certificate</a> )        | <i>Jul 2022</i> |
| <b>Modern Javascript Firebase Bootcamp, Udemy</b> ( <a href="#">View Certificate</a> )        | <i>Sep 2021</i> |
| <b>Python and Flask Framework Complete course, Udemy</b> ( <a href="#">View Certificate</a> ) | <i>Sep 2021</i> |
| <b>CSS and JavaScript, Udemy</b> ( <a href="#">View Certificate</a> )                         | <i>May 2019</i> |

| ORGANISATIONS/CLUBS              |  |                                       |   |
|----------------------------------|--|---------------------------------------|---|
| <b>Shunya Math Club PESU ECC</b> | Campus Head ( <i>Sep 22–Present</i> )<br>Logistics Head ( <i>May 22-Sep 22</i> ) | <b>Entrepreneurship Club PESU ECC</b> | Events and Sponsorship Team ( <i>Sep 22-Present</i> ) |
| <b>Swachh Bharat Mission</b>     | Student Volunteer ( <i>Apr 16-Jul 18</i> )                                       | <b>Maaya Fest 2022 PESU ECC</b>       | Events Team Volunteer ( <i>Nov 22</i> )               |
| <b>GDSC PESU ECC</b>             | Member ( <i>Jan 22-Present</i> )   | <b>Oncreate PESU ECC</b>              | Core Team ( <i>Aug 22-Present</i> )                   |
| <b>WEAL Club ECC</b>             | Logistics Team ( <i>Nov 22-Present</i> )   | <b>Quotient Quiz Club PESU ECC</b>    | Member ( <i>Apr 22-Oct 22</i> )                       |
| <b>GitHub Developer Program</b>  | Member ( <i>Mar 22-Present</i> )   | <b>IEEE CS Society PESU</b>           | Member ( <i>Feb 22-Present</i> )                      |
| <b>IEEE RAS PESU</b>             | Member ( <i>Apr 22-Present</i> )   | <b>Samarpana ECC</b>                  | Student Head ( <i>Sep 22</i> )                        |