

# Abhineeth Srinivasa

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**Summary** — I'm a dedicated 4th-year Bachelor's student at M S Ramaiah Institute of Technology. With over 3 years of specialized experience in Data Structures, Algorithms, Web Development, and Competitive Programming, I am passionate about software engineering and thrive on solving complex problems. Known for my ability to think beyond conventional boundaries, I'm driven by a strong ambition to simplify and enhance everyday life through my technical skills, always striving to create impactful, efficient solutions in the tech world.

## Education

<b>Ramaiah Institute of Technology</b> <i>Bachelor of Engineering in Electronics and Instrumentation</i> CGPA:7.77	<b>Bangalore, Karnataka</b> 2021- Current
<b>Vidya Mandir Ind PU college</b> 2nd PU ; Percentage : 86.2	<b>Bangalore, Karnataka</b> 2019-2021
<b>Presidency School , NLO</b> Class 10th ; Percentage : 93.0	<b>Bangalore, Karnataka</b> 2009-2019

## Experience

<b>NFThing</b> <i>Software Developer Engineer Intern</i> <u>Database Collection for Webapp</u> <ul style="list-style-type: none"><li>– Fetched and populated the entire database for the website, including 1 million movie data from all over the world, their cast details and trailers, covering all data required to support the site's content and functionality.</li></ul> <u>Upcoming Movies</u> <ul style="list-style-type: none"><li>– Developed an API to list upcoming movies and check if each movie is on the user's watchlist, combining movie details with watchlist information for a personalized overview.</li></ul> <u>Remove from Watchlist</u> <ul style="list-style-type: none"><li>– Created an API that allows users to remove movies from their watchlist, verifying if the selected movie is listed and deleting it if found, with responses for success or error.</li></ul> <u>User Reviews</u> <ul style="list-style-type: none"><li>– Built an API to retrieve and organize a user's rated movies from highest to lowest rating, integrating movie details with the user's review data.</li></ul> <u>User Votes</u> <ul style="list-style-type: none"><li>– Developed an API to categorize a user's reviews by upvoted and downvoted feedback, arranging reviews by the volume of upvotes and downvotes for detailed insights into voting behavior.</li></ul>	<b>Hackney, London</b> Oct 2023 – Current
<b>Tata Advanced Systems Limited</b> <i>Associate Engineer Intern</i> <u>PCB Design and Fabrication for Military Equipment</u> <ul style="list-style-type: none"><li>– Assisted in design and development of PCBs for military equipment such as the ATAGs and Night Vision goggles using advanced PCB design software, including Altium, to achieve high-precision layouts tailored to stringent specifications.</li><li>– Oversaw the end-to-end PCB fabrication process, utilizing software tools to ensure quality control and adherence to military standards.</li><li>– Managed and optimized the mechanical packaging, automation, and testing phases, leveraging software-based testing frameworks to enhance reliability, durability, and performance under demanding weather conditions.</li></ul>	<b>Bangalore, Karnataka</b> Sept 2023 – Nov 2023

## Skills and Coursework

<b>Languages</b> Java, Python, C/C++, JavaScript	<b>Miscellaneous</b> Microsoft Office, Git, Github, LaTeX
<b>Web Development</b> HTML5/CSS, React.js, Node.js, Express.js	<b>Soft Skills</b> Time Management, Teamwork,
<b>Databases</b> SQL, MongoDB	Problem-solving, Documentation, Presentation
<b>Coursework</b> Data Structures, Machine Learning, Database Management Systems, Artificial Intelligence, Cloud Computing, Software Engineering, Microcontrollers, Operating Systems, Object-Oriented Programming, Control Systems, Digital Signal Processing, Numerical Techniques and Probability Models, Research Methodology and IPR, Computer Networks, Linear Algebra and Laplace Algorithms, Design Thinking, Data Science, Management and Entrepreneurship	

## Projects

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<b>Deflix</b>	<b>Oct 2023 – Present</b>
<ul style="list-style-type: none"><li>– Developed a Blockchain based movie review and rating website to ensure transparency and efficient incentivisation of users.</li><li>– Developed Backend APIs for Deflix</li><li>– Developed APIs to enable community contributors to display their contributions, creating a structured and dynamic interface for showcasing achievements within the platform.</li></ul>	
<b>Smart Traffic Management using Machine Learning</b>	<b>Mar 2023 – Aug 2023</b>
<ul style="list-style-type: none"><li>– Developed a smart traffic management system using SUMO and Google Maps, enabling the simulation of real-life traffic on any selected road network.</li><li>– Created a model to dynamically adjust red light durations, reducing congestion by optimizing traffic flow in real time.</li><li>– Designed the system to be adaptable to various road configurations, allowing for customizable traffic control to improve overall efficiency.</li></ul>	
<b>Life Expectancy Predictor Model</b>	<b>Nov 2022 – Jan 2022</b>
<ul style="list-style-type: none"><li>– Developed a predictive model for life expectancy, trained on diverse datasets representing various indigenous groups from around the world.</li><li>– Leveraged global demographic and health data to enhance the model's accuracy and adaptability to different populations.</li><li>– Designed the model to provide insights into factors affecting life expectancy across distinct human groups, with potential applications in public health and policy planning.</li></ul>	
<b>Blind Spot Detection System for Motorcycles</b>	<b>May 2024 – Sept 2024</b>
<ul style="list-style-type: none"><li>– Developed a blind spot detection system for motorcycles that alerts riders of nearby vehicles in their blind spot, helping prevent potential accidents.</li><li>– Engineered a real-time wireless communication system to transmit blind spot alerts directly to the rider's helmet, ensuring timely and effective warnings.</li><li>– Focused on enhancing rider safety by addressing critical visibility challenges in motorcycle operation.</li></ul>	

## Achievements

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- Achieved a top 5 position in State level Hackathon organized by CIT, Tumkur (2023)
- Awarded Gold Medal for National English Olympiad organized by The British Council (2018)
- Awarded Gold Medal in the ASSET National Level Aptitude Exam (2017)
- Qualified for Level 1 in the National Talent Search Exam (NTSE) (2016)
- Member of the college dance crew, securing 1st place in multiple intercollegiate festivals.(2022)