



## VARUN SAHNI

Course : **B.E. (Hons.), Computer Science, 2024**

Email : [varunsahni18@gmail.com](mailto:varunsahni18@gmail.com)

Mobile : +91- 7042090825

LinkedIn : [www.linkedin.com/in/varun-sahni-profile/](https://www.linkedin.com/in/varun-sahni-profile/)



### ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE / UNIVERSITY	SCORE/CGPA	YEAR
B.E. (Hons)	Computer Science	Birla Institute of Technology & Science Pilani BITS-Pilani Main Campus <a href="http://www.bits-pilani.ac.in">www.bits-pilani.ac.in</a>	7.49 (2020-23)	2020-24
CLASS XII	Science	Manav Sthali School, New Delhi / Centra Board of Secondary Education (CBSE)	91.6 % PCM	2020

Subjects / Electives	Data Structure & Algorithms, Design & Analysis of Algorithms, Computer Networks, Operating Systems, Object Oriented Programming, Database Management System, Computer Architecture, Discrete Structure in Computer Science
Technical Proficiency	Java, Git, C++, Azure DevOps, Linux/Shell Scripting, Spring Boot, Mockito, Unity, SQL, C#, AR/VR, Flutter, Google Cloud

### AWARDS AND RECOGNITIONS

<b>DAAD Scholarship Awardee   German Academic Exchange Service</b> • Awarded prestigious <b>DAAD scholarship</b> to conduct research on Mixed reality-based application as a <b>guest researcher at Tu Braunschweig Germany</b> .	<b>Sep 2022</b>
<b>JumpStart   Publicis Sapient</b> • Among <b>29,862</b> participants worldwide, ranked among the <b>top 5.4%</b> and got shortlisted for Publicis Sapient's JumpStart program.	<b>Jul 2022</b>
<b>JEE Advanced   Indian Institutes of Technology (IIT)</b> • Obtained JEE Advanced rank <b>2358 out of 150,000</b> candidates, showcasing outstanding proficiency in math, physics, and chemistry.	<b>Sep 2020</b>

### SUMMER INTERNSHIP / WORK EXPERIENCE

<b>SDE Intern, Standard Chartered GBS Pvt Ltd</b> • <b>CCIB SCPAY 2023 Award</b> Received <b>Award for Excellence at Standard Chartered Bank</b> , played pivotal role in <b>migrating from Jenkins to Azure DevOps</b> . • <b>Improved code reliability for SC Pay</b> by implementing <b>100+ test cases</b> using <b>JUnit and Mockito</b> , achieving outstanding <b>98.61% test coverage</b> . • <b>Orchestrated essential file setup &amp; Azure-based deployment for 10+ repositories</b> enabling seamless continuous integration & faster software releases. • <b>Facilitated efficient collaboration with Bitbucket</b> for version control & code reviews, streamlining development processes & improving team productivity.	<b>May 2023 - Jul 2023</b>
<b>Intern, Invoxel Technologies</b> • <b>Created AR application for an art gallery</b> , leveraging image recognition to scan paintings, retrieve relevant information, showcasing it on a virtual canvas. • <b>Implemented robust AR Object positioning by using private Wayspot Anchors</b> , ensuring stable alignment of virtual elements with real-world objects. • <b>Implemented a virtual canvas</b> that <b>dynamically</b> matches the size of scanned paintings, enabling rotation, scaling, and translation synchronisation. • <b>Developed a multi-touch application using "TouchScript"</b> for a museum, enabling <b>concurrent usage by multiple users</b> on touch-enabled devices.	<b>Jun 2022 - Aug 2022</b>

### PROJECTS

<b>Indo-German Sustainability Challenge - Project at TU Braunschweig University, Germany</b> • <b>Developed user-friendly Mixed Reality application</b> for visualizing complex Life Cycle Assessment LCA data, facilitating decision-making processes. • <b>Demonstrated the application's features, enabling intuitive navigation, scenario selection &amp; CO2 emissions visualization</b> over the product's lifetime. • <b>Presented the AR application on the "HoloLens"</b> to a scientific jury, receiving accolades for its innovative approach & potential impact on LCA analysis. • Collaborated seamlessly with international teams, fostering effective cross-cultural communication and teamwork at TU Braunschweig and BITS Pilani.	<b>Sep 2022 - Present</b>
<b>Digital Map Twin - Project on Geospatial Mapping and Location Services - MapMyIndia Company</b> • <b>Created MapMyIndia SDK's Navigate to and from</b> feature with intuitive zooming animations, facilitating effortless travel between map locations. • <b>Built a versatile Map Layer Inspector Panel</b> , automating marker and model management on the map, resulting in significantly reduced development time. • <b>Implemented smooth zoomable and rotation functionality</b> , ensuring a fluid and distortion-free experience, resulting in enhanced map interactions.	<b>Aug 2022 - Jan 2023</b>
<b>Compiler Construction - Academic Project - C-Programming</b> • <b>Implemented a highly efficient compiler from scratch</b> , covering lexical analysis, syntax analysis, semantic analysis, and code generation stages. • <b>Designed an optimized lexical analyzer</b> with DFA-based tokenization and twin buffer implementation, enhancing parsing efficiency and memory utilization. • <b>Developed LL (1) grammar with automated first and follow sets</b> , enabling precise <b>parse tree generation</b> and robust error recovery capabilities. • <b>Constructed Abstract Syntax Tree (AST)</b> during syntax analysis, <b>reducing memory requirements by 70%</b> while capturing essential semantic structure.	<b>Feb 2023 - Apr 2023</b>
<b>Live Train Status - Academic Project - Database Management System</b> • <b>Developed a Train Status Tracking App using Flutter</b> to monitor <b>train schedule, routes, ETA, ETD</b> and <b>live status</b> of any train. • Streamlined Live Train tracking with a well-structured <b>ER model</b> and <b>relational schema</b> , enabling efficient data retrieval and enhanced user experience.	<b>Mar 2022 - May 2022</b>

### POSITION OF RESPONSIBILITY

<b>First President - Kalipatnapu AR/VR Lab BITS Pilani - <a href="https://kxr-portfolio.vercel.app/">https://kxr-portfolio.vercel.app/</a></b> • <b>Strengthening Industry Partnerships</b> to identify opportunities and develop innovative AR/VR solutions, immersive experiences & interactive simulations. • <b>Building Team</b> - Recruited team of 20 students to work on different AR/VR projects and guided them to develop AR measuring tape app.	<b>May 2023 - Present</b>
<b>Blockchain Dept Coordinator - Coding Club</b> • Pioneered the <b>establishment of the Blockchain Department</b> , outlining objectives, structuring the organization, and executing initial recruitments.	<b>Jul 2022 - May 2023</b>
<b>Mentor - Peer Mentorship Program (PMP)</b> • Nurtured an inclusive and supportive environment for <b>10 first-year students</b> , facilitating open communication and providing mentorship guidance.	<b>Aug 2021 - Aug 2022</b>