Abhinav Singh

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EDUCATION

Indian Institute of Information Technology Guwahati	July 2022
Bachelor of Technology in Computer Science	*CPI: 9.51*
Modern Academy	May 2018
Higher Secondary Education	*Percentage: 98.25%*
Immaculate Conception Convent School	May 2016
Matriculation	*Percentage: 97%*

EXPERIENCE

Tekion Corp. | Associate Software Engineer   July 2022 – Present
- Created a version history modal to track edits, enhancing transparency and collaboration among contributors.
- Implemented module federation enhancements, optimizing project functionality, leading to a 30% reduction in page load times.
- Utilized pusher notifications for controlled editing access, ensuring efficient collaboration on forms with a 50% decrease in editing conflicts.
- Developed an organize fields modal enabling user-defined ordering and categorization of form fields.

Tekion Corp. | SDE Intern   Jan – Jun 2022
- Contributed to the development of a calendar view module within a customer relationship management system.
- Empowered 1500+ salespersons with the ability to seamlessly create, manage, and organize over 1000 appointments and tasks.
- Collaborated with the team to ensure seamless integration of the calendar view into the existing system.

Qualyval Consulting Ltd | SDE Intern   Jan – Oct 2021
- Engineered automated system for efficient daily scraping of 500+ purchase orders from client portal, storing in database, and allocating to products, streamlining operations.
- Created form-filling bot utilizing Airtable API for data retrieval, image uploads, and auto-generated document mailings, saving 20+ hours weekly.

An Introduction to Number Theory and its Applications | Internship | CSE Dept., IIITG   May – July 2020
- Gained insights into mathematical foundations and their relevance to algorithmic challenges and solutions.

SKILLS

Languages: JavaScript, HTML/CSS, C/C++, Java, Python, LaTeX
Tools: Git, Node.js, VS Code, Jira
Frameworks: React, Node.js, Flutter, Puppeteer
Databases: MySQL, MongoDB, Firebase, Airtable

PROJECTS

Range-based Packet Classification | *P4, Python, Java*   Oct 2019 – Nov 2021
- Devised a novel solution for efficient representation of multiple fields with conditional checks, like range checks and negations, within TCAM.
- Addressed the crucial need to reduce cost and power consumption by attaining upto 74.35% reduction in TCAM space utilization.
- Successfully executed the algorithm without necessitating hardware modifications, facilitating incremental and consistent classifier updates.

HireTutor | *Flutter, Dart, Firebase*   Jan – April 2021
- Formulated an innovative solution with the goal of bridging the gap between students and coaching classes/private tuitions, fostering educational connectivity.
- Deployed a user-friendly interface enabling students to easily choose suitable tutoring options based on availability and personal preferences.
- Empowered tutors to expand their reach and impact by connecting with a diverse range of students.