Ksheer Sagar Agrawal

Final-Year Undergraduate
Department of Electrical Engineering (Minors in Computer Science Engineering)
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EDUCATION

Degree	Institution	CPI/%	Year
B.Tech	IIT Gandhinagar	8.7	2020 - Present
Class XII	Delhi Public School, Mumbai	94.0	2019-2020
Class X	Delhi Public School, Mumbai	95.8	2017-2018

INTERNSHIP

- **Amazon India, Software Development Intern** *[May 2023 - July 2023]*
  - Successfully migrated & optimized an AmazonGo Store Montoring Service, to a server less architecture, reducing per store costs & improving scalability of new stores.
  - Designed Lambdas for business logic and used AWS services to store, trigger and monitor store updates. Stressed on good quality documentation and deployed 10,000+ well tested code lines in Java and TypeScript.
  - Demonstrated adaptability by swiftly acquiring proficiency in Amazon internal tools and independently navigating project, fostering collaboration with sister teams in Seattle.
  - Contributed valuable bugs solution's on Amazon's internal platform, Sage, showcasing both technical prowess and commitment to teamwork.

- **Teaching Assistant at Coding Ninjas** *[July 2022 - August 2023]*
  - Solved 200+ Programming & Debugging Doubts on the Coding Ninjas Platform.

PROJECTS

- **Placement Management Application** *[Feb 2023 - March 2023]*
  - Created an open source web application for college campuses and recruiters as a database and to communicate during the process of hiring of students for Internship and New Grad Roles.
  - Worked on frontend, backend integration and testing using HTML, CSS, JQuery, Flask & Django, and MySQL.

- **Academic Request System, Institute Building Project** *[August 2021 - December 2021]*
  - Developed an Academic Request System for academics office & students at IIT Gandhinagar. Consists of a dashboard and a student portal to make and handle all requests.
  - Apex for Grade, Transcript, TA certificate & many other academic requests.

- **Surveillance Robot** *[Feb 2023 - March 2023]*
  - Engineered a web-based control system for an STM-based surveillance robot, enabling global control via a NodeMCU, with real-time directional command conversion facilitated by STM microcontroller integration.
  - Implemented obstacle detection algorithms within the system for seamless, wide-range IoT robot control, and uncovering potentials for future computer-vision enhancements.

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant, IIT Gandhinagar - [ES 242 DSA 1]** *[August 2022 - November 2022]*
  - Prepared original programming assignments on REPLIT platform and conducted lab sessions for 200+ students

- **Class Representative, Electrical Engineering, IIT Gandhinagar** *[August 2022 - September 2023]*
  - Engaged with the faculty to assist in communication between course instructor and class.

ACHIEVEMENTS

- **Top 25** selection, SIA Youth Scholarship, India, for Pre-University studies in Singapore.
- UGEE – (**AIR 220** out of 50,000+ Applicants) (Aug 2020).
- **Topped** GMAT section in National Talent Search Examination (Round 1) in Mumbai.
- **3rd Position** (First Year) in Code Rush – Ignite IIT Gandhinagar (2021).
- Secured Prestigious **Dean's List Award** in 1st, 2nd, 4th, 6th semesters for scoring more than 8.5 SPI.

SKILL SUMMARY

- **Languages :** *C-CPP and Python (Basics), Java, Typescript*
- **Backend Frameworks :** *Spring MVC, Spring, Node JS*
- **Platform** : *Android, Linux, Windows, macOS*
- **Others:** *SQL, Git, AWS Lambda (Beginner), HTML ,CSS, JUnit Testing Framework*
- **Methodologies :** *Test Driven Development, Object-Oriented Programming*

EXTRA-CURRICULAR ACTIVITIES

- At University, I play men's singles and captain IIT GN's Badminton Team. *[November 2021 - Present]*