

Pranavi Jain

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ACADEMIC DETAILS

Examination	Institute	Year	Score
Undergraduate Specialization: Graduation	<i>Electronics and Computer Engineering</i> B.E. - TIET, Patiala, India	2021	9.03 CGPA (10 Point Scale)
ISC (Senior Secondary)	Sacred Heart School, Amritsar, India	2017	91.75%
ICSE (High School)	Sacred Heart School, Amritsar, India	2015	94.6%

FIELDS OF INTEREST

- **Software Development, Algorithms** - Interested in inventing ways to solve problems encountered in daily life, i.e. to help improve the standard of living via technology.
- **Quantum Computing** - To better understand the systems of nature; delved a little into Michael Nielsen's Quantum Computation and Information, intending to pursue work in this field.
- **Hardware and IoT** - Intrigued by the working of electronic systems and how these have significantly improved our lifestyles; developed IoT-based projects with applications to real-world problems.
- Assembly Language and Embedded Systems; study of FETs and VLSI Technology.

TECHNICAL SKILLS

Technical Languages	Java, C++, C, Python	Database	MySQL, Oracle
Frontend	HTML/CSS	Script	JavaScript
Hardware Boards	Arduino, Raspberry Pi	Other	GitHub, Ubuntu, Open APIs,
Frameworks	Django		SoapUI, MultiSim, Fritzing

WORK EXPERIENCE

- **Associate Software Engineer - Amdocs, Development Centre India LLP**
(5 July 2021 - present)
 - Working as a software developer on Java-based projects with equitable experience operating with APIs and MySQL database.
 - Gathered a fair understanding of the working of Ordering Management Systems (OMS) designed for Telecom industries.
 - Delivering customer requests dead on time, observing quality maintenance, handling ad-hoc client requirements with utmost efficiency and responsibility.
 - Deep-dived into the project structure to better understand existing functionality and accordingly introduce required new changes.
- **Web Development Intern - Saathi Global Education Network**
(1 January 2021 - 30 June 2021)
 - Worked as a web-app developer with tasks primarily focused on back-end technology.
 - Designed and built a content management system (CMS) from scratch per business requirements.
 - Structured the entire database and built REST APIs with django-rest-framework for the company's client-focused project.
 - Acquired skills in coding with Python, Django framework and database organization, and getting acquainted with the start-up culture.

MAJOR PROJECTS

- **Conference - Post Quantum Digital Signature Change in IOTA to Reduce Latency in Internet of Vehicles (IoV) Environments**
(May 2022, IEEE Xplore - 2022 International Conference on IoT and Blockchain Technology)
 - Objective: To present and evaluate how IOTA, a distributed ledger technology, can be improvised for application in IoV by replacing its existing post-quantum digital signature scheme.
- **Queue Data Analytics Using Cisco Meraki's MV Sense 12 (SIH Project)**
(Feb'19 - March'19, Smart India Hackathon 2019)
 - Objective: To build an app presenting data on human queues lined at various public places and provide customers with suggestions on the best time to visit a particular place.
 - The project uses Cisco's Meraki MV Sense 12, an IoT and ML-enabled camera which detects the number of people in a frame, and a Mobile/Web-App built using Flutter to present the collected data to users systematically. It performs predictive analysis on the collected data to deliver recommendations.
 - Personal Contribution: API handling using Postman services, receiving data from Meraki camera via its APIs, parsing the information and forwarding it to our custom-built app.
- **Maze Solver and Obstacle Avoider Bot**
(Aug'18 - Oct'18)
 - Building an electronic bot, using IR and ultrasonic sensors, coded to solve a maze by itself while also avoiding obstacles; an effort to implement one of the concepts of self-driving cars.
- **Shift Register using D-Flip Flops**
(May'18)
 - Constructing a left and right shift register using LED's and D-Flip Flops on a breadboard; built to demonstrate the working of the simplest electronic register.

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EXTRA-CURRICULAR EXPERIENCE

- **CERTIFICATE - WINNER SIH 2019**
SIH, Software Edition, March 2019 - Solved Cisco DevNet's problem statement under the Complicated category.
- **Joint Secretary, TAAS Student's Club**
Thapar Amateur Astronomers Society (TAAS), February'18 - June'20

Twice organized a full-fledged event by the name of Aakash Ganga, hosting around 300 school students to spread the word of science and evoking keenness for Astronomy and Astrophysics.
- **GirlScript Chapter Lead, Patiala City**
GirlScript Foundation, July'19 - May'20

A tech education organization helping learners across the globe, with GirlScript Foundation managed events at the city-level for spreading technological awareness, specifically among girls and women and encouraging more participation in this field of work.
- **IoT and Hardware Dept Head, GDSC**
Google Developer Student Club (GDSC) Thapar, August'19 - May'20

Worked as a helping hand for organizing tech events in college and mentoring fellow students for electronic hardware-related projects.
- **Technical Event Head, College Fest Saturnalia'19**
Saturnalia Fest Thapar, August'19 - November'19

Handled various managerial activities inclusive of scheduling, documenting and organizing numerous technical events; functioned as a strong team player for preparing a nationwide tech hackathon, a first in the college.
- **Student Mentor, IETE Local Chapter**
IETE Student's Forum, Thapar, August'18 - May'19

Actively partook in team projects building varied bots; organized student workshops on typical sensors and boards; mentored fellow students on commonly employed electronic aspects.

- **Head Girl, High School**

Sacred Heart Senior Secondary School, March '15 - Feb '17

Unanimously elected by teachers and schoolmates, served as vice-captain and prefect; diligently carried out activities ranging from representing the school on public occasions, organizing numerous social events to guiding the student body.

STRENGTHS

- Hardworking and determined
- An always positive and can-do attitude
- Eagerness and curiosity to learn

INTEREST AND HOBBIES

- Music is a lifeline and seldom playing the guitar
- Travelling and exploring new places, always up for adventures
- Reading books from scientific, fictitious or psychological backgrounds
- Fascinated by space and the yet complex science behind it, curious to find the unknown