



+91 9910948788

ap9271@srmist.edu.in

<https://portfoliowebsite-phi-peach.vercel.app/>

Dwarka , New Delhi

## Education

### High School Diploma

BGS INTERNATIONAL PUBLIC SCHOOL  
2010 - 2024

### Bachelor of Technology

SRM INSTITUTE OF SCIENCE & TECHNOLOGY

2024 - 2028

## Expertise

WEB DEVELOPMENT

APP DEVELOPMENT

SOFTWARE TESTING & DEBUGGING

CYBERSECURITY

Performance Enhancement

AI and API management & integration

Public Speaking

## Language

English

French

Hindi

German

# ARNAV PUGGAL

## SOFTWARE ENGINEER

### Profile

I am Arnav Puggal, a driven technologist passionate about quantum mechanics, software engineering, and cybersecurity. With a computer science background and over three years of web design experience, I excel in coding, mechanics, and community service. My athletic discipline and growth mindset fuel my success. Achievements include winning multiple ethnotech challenges. I am committed to making impactful contributions in technology.



### Work Experience

#### SOFTWARE DEVELOPER INTERN

Sep 2024 - Nov 2024

WIPRO DICE ID, CHENNAI

- Used Spring and Hibernate to create and improve Java and Python apps: Added new features, fixed bugs, and integrated third-party APIs. Improved performance by more than 30% by optimizing code and lowering technical debt.
- Improved code quality and Agile teamwork: Did peer code reviews, made sure the code followed industry standards, and helped plan scalable architecture in daily stand-ups and sprint meetings.

#### INFORMATICS SPECIALIST/COORDINATOR

Aug 2023 - Aug 2024

BGS INTERNATIONAL PUBLIC SCHOOL, DWARKA ( NEW DELHI )

- Managed informatics systems and improved data infrastructure: Developed efficient storage solutions, set up security and backup protocols, and fixed technical problems to make sure that operations ran smoothly and that data was easier to access.
- Drove data use and cross-functional collaboration: Worked with teams to integrate informatics solutions that helped with decision-making; improved system adoption by training staff, developing complex queries, and using data visualization for analytics and reporting.

#### JUNIOR ROBOTICS ENGINEER/SOFTWARE DEVELOPER

Jul 2018 - Aug 2023

ETHNOTECH ACADEMIC SOLUTIONS, DWARKA ( NEW DELHI )

- Made C++ and Python robotic software solutions for high-precision automation: Created control algorithms, planned scalable architectures, and made sure they were reliable by testing and debugging them against industry standards.
- Combined machine learning methods with real-time data processing to improve system performance: Led the implementation of ML algorithms that made robotic platforms able to make decisions in real time and improved the efficiency of the process by 20%.
- Organized the integration of hardware and software across departments: Worked with hardware teams to create unified solutions while keeping quality high by documenting systems and doing code reviews.

## PROJECTS

SRM VR CAMPUS CONNECT

AUTOMATED TURING MACHINE

B-BREAKER AI CHATBOT

HEALTH COMPANION LLM

B-BREAKER AI CHATBOT

AUTOMATED TARGET LOCKING SYSTEM

UAV SWARM SYSTEM

MOODY FOODY APP

AI SONG WRITER AND COMPOSER

AI AGENT BUILDER

AI SAAS

PHOENIX PROTOCOL

## JUNIOR SOFTWARE ENGINEER

Dec 2024 - Present

Hackerrank

- Participated in peer code reviews and adhered to industry coding standards to maintain high-quality software deliverables.
- I got better at C, C++, Python, Java, and SQL faster by working on coding assessment tools and learning the best ways to optimize algorithms in each language.
- Engineered and debugged scalable features for HackerRank's coding challenge platform, using test-driven development (TDD) principles to make sure the solutions were more reliable.
- Optimized SQL database operations for tracking user performance metrics, cutting query latency by more than 25% by using indexing and schema refinement.
- Worked with senior developers in Agile sprints to make full-stack improvements that helped with important parts of both frontend (Python/Java) and backend (C++/SQL) systems.

## Internships

### Software developer

Sep 2024 - Nov 2024

Teachnook, Chennai Tamil Nadu

- Created Java and Python apps, adding features and making code and third-party API integrations more efficient.
- Peer reviews and working with senior developers helped keep the code quality high and the company in line with industry standards.
- Helped Agile workflows by planning sprints and having daily scrums to improve tasks and keep track of progress.

### Junior Robotics Engineer

Jul 2018 - Aug 2023

Ethnotech Academic Solutions, DWARKA ( NEW DELHI )

- Engineered C++ and Python software solutions for robotic systems, working with senior engineers to design automation algorithms and improve control processes.
- Organized the integration of hardware and software to improve communication between parts and make the system work better with other systems for smooth robotic operations.
- Led research and development projects, created prototypes of new solutions through technology research, and wrote algorithms for autonomous navigation and data processing to improve system performance.



## ACHIEVEMENTS

Won 2nd place in Zonal level science activities and expos organised by directorate of education Delhi

Won 2nd place in Central level science expo organised by directorate of education Delhi

Won 3rd place in robo soccer tournament by Mount Carmel School New Delhi

Was entitled Junior Robotics engineer and junior game developer as a part of BGS CREATIVE AND DESIGN LABS PROJECT

Was appreciated for outstanding performance in graphics and was entitled as the informatics coordinator

Won 3rd position in Unleash Hack India :Renewable energy and water access for rural development at SSRMIST

Won first position in reuse and remodel product at SRMIST

Was presented certificate of merit in Techknow 2024-2025