

# Arjun Sharma

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## Summary

**Passionate and detail-oriented Computer Science student** with a strong foundation in **programming, problem-solving, and software development**. Enthusiastic about learning new technologies and applying knowledge to real-world projects. Proficient in **Python, Java, C, JavaScript**, and **SQL**, with experience in **web development, data structures, algorithms, OOP, database management, machine learning**, and **NLP**. Seeking opportunities to gain hands-on experience and contribute to innovative projects in a dynamic environment.

## Education

**Vellore Institute of Technology (VIT), Vellore**  
*Bachelor of Technology in Computer Science*  
CGPA: 7.93

2021 – 2025

**Amity International School, Gurgaon**  
*High School Diploma (CBSE)*  
Percentage: 92%

2019 – 2021

**DPS International, Gurgaon**  
*Middle School Diploma (International Baccalaureate)*  
CGPA: 8.03

2018 – 2019

## Work Experience

**Software Development Intern**  
*Arcesium, Bangalore*

Sep 2023 – Oct 2023

- Improved system reliability by **30%** through debugging and **resolving 15+ issues** in the **Performa app**, ensuring seamless data processing and enhanced system uptime.
- Leveraged **AWS cloud services** to streamline data storage, enhance scalability, and improve **global accessibility** by **20%** for **critical business applications**.
- Streamlined code-base by implementing modular designs, reducing deployment time by **20%**.

## Projects

**ChromaCrafters: Color Palette and Wardrobe Generator** ([GitHub](#))

Dec 2024

- Built a personalized color palette platform with facial landmark detection using **TensorFlow**, **OpenCV**, and **dlib**, achieving **90%** feature accuracy.
- Integrated the **Forever21 API** to deliver wardrobe suggestions aligned with user palettes, increasing engagement by **25%**.
- Developed an intuitive front-end using **HTML**, **CSS**, and **JavaScript**, enhancing usability and driving a **20%** rise in user interaction.

**Technologies:** TensorFlow, OpenCV, dlib, HTML, CSS, JavaScript, Forever21 API

**DermDetectAI: Skin Cancer and Lesion Detection** ([GitHub](#))

Jul 2024

- Built a **CNN model** for skin lesion detection using **TensorFlow** and **dlib**, achieving **96% accuracy** on the **ISIC 2018 dataset**.
- Incorporated an **interactive chat-bot**: Enhanced interaction by **30%**, reducing query time by **40%**.
- Integrated **Google Maps API**: Cut search time by **50%** for dermatologist recommendations within **5 km**.
- Designed a responsive diagnostic system: Achieved **95% up-time** and improved processing speed by **35%**.

**Technologies:** TensorFlow, dlib, ISIC 2018 Dataset, HTML, CSS, JavaScript, Google Maps API

**Virtual Car Showroom: Interactive Car Exploration Platform** ([GitHub](#))

Jun 2024

- Created a **3D virtual showroom** using **WebGL**, enabling 360° vehicle exploration and customization for immersive user experiences.
- Implemented a **test-drive simulation** and deployed the platform online, boosting engagement by **20%** and maintaining **98% availability**.
- Built a scalable **MERN stack** back-end, supporting **100+ users** with **30% faster** response times. ([Explore the Platform](#))

**Technologies:** WebGL, MERN (MongoDB, Express, React, Node.js)

**SerenityAI: AI-Powered Mental Health Support System** ([GitHub](#))

Mar 2025

- Built a responsive AI therapy app with real-time chat, voice input, and emergency support using **React.js**.
  - Designed secure journaling and auth systems with **Firebase**, supporting both freeform and guided entries.
  - Integrated **Google PaLM API** for empathetic NLP; currently developing custom AI model to replace Gemini.
- Technologies:** React.js, Firebase, Google PaLM API, JavaScript, HTML, CSS, Speech Recognition, Text-to-Speech

## Certifications

○ **AWS Cloud Practitioner Essentials**  
Amazon Web Services ([link](#))

○ **Accelerating Deep Learning with GPUs**  
IBM - CognitiveClass ([link](#))

○ **Frontend Developer (React)**  
HackerRank ([link](#))

○ **Google Analytics**  
Google ([link](#))

## Technical Skills & Relevant Course-Work

**Coursework:** Data Structures, Operating Systems, Algorithms Analysis, Database Management, Artificial Intelligence, Computer Architecture, Computer Networks, Deep Learning, Object-Oriented Programming, Cryptography

**Languages:** C++, C, Python, Java, PHP, HTML/CSS, JavaScript, Matlab, SQL, noSQL

**Developer Tools:** VS Code, Eclipse, Jupyter, Cursor, Anaconda, Google Cloud Platform, Xcode, Amazon Web Services, Microsoft Azure

**Technologies/Frameworks:** ReactJS, Flask, Django, Git/GitHub