Aryan Gajjar

Link to my site: http://www.aryangajjar.com

+1 (382)-885-0752	gajjararyan2005@gmail.com	Waterloo, ON, CA

Objective

Motivated and results-driven Computer Programming and Analysis student with hands-on experience in data analytics and software development. Skilled in analyzing data, building software applications, and managing databases. Seeking a Data Analyst or Software Developer position to apply technical expertise and contribute to innovative projects.

Highlights

- *Robotic Process Automation:* Experience in RPA development, automating business processes to optimize workflows and increase efficiency.
- *Software & Robotics Development:* Proficient in Java, Python, SQL, C++, Arduino, and SDLC concepts, with hands-on experience in building autonomous systems and robots.
- *Mechanical Design (SolidWorks & AutoCAD):* Skilled in designing mechanical components and assemblies using SolidWorks and AutoCAD for robotics and automation projects.
- *Collaborative Problem-Solving:* Demonstrated ability to work on multidisciplinary teams to deliver robust solutions, while engaging in problem-solving and process optimization.
- *Database Management:* Strong foundation in MySQL, MongoDB, and Redis for managing and optimizing data-driven applications.
- *Clear Communication*: Adept at presenting complex ideas to technical and non-technical stakeholders, ensuring successful project outcomes.

Key Skills

Programming Languages: Java, Python, C++, C#, SQL, JavaScript

Robotics Development: Arduino, Microcontrollers, Sensors (Ultrasonic, Gyroscope)

Design Tools: SolidWorks, AutoCAD (3D modeling, CAD design)

Version Control: Git

Frameworks & Tools: RPA Tools, Django, Node.js, SolidWorks, AutoCAD, Power BI

Database Technologies: MySQL, MongoDB, Redis

Data Analysis & Visualization: Power BI

Methodologies: Agile, SDLC, CI/CD

Education

Ontario Advanced Diploma College Degree **Jan (2024) - Present**

Computer Programming and Analysis
Conestoga College, Waterloo, ON

Central Board of Secondary Education (CBSE) **Jun (2022) - Mar (2023)**

Standard – 12th Science
Percentage – 70%
Anand Niketan Maninagar Campus
Ahmedabad, Gujarat, India

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Project Works

Quadcopter Development (2022)

- Designed and developed a functional quadcopter using Arduino and various sensors for flight control.

- Programmed flight stabilization algorithms, and integrated gyroscopic sensors for real-time adjustments.

- Collaborated on SolidWorks to design and model the frame and structure of the quadcopter, ensuring optimal weight distribution.

Automated Car using Ultrasonic Sound Sensor (2023)

- Built an autonomous car equipped with an ultrasonic sensor for obstacle detection and avoidance.

- Designed the car chassis using SolidWorks and programmed the control logic using C++ and Arduino IDE for path planning and collision avoidance.

Temperature-Based Fan Using Arduino UNO *(2021)*
- Led a team in programming the Arduino UNO to create an autonomous fan controlling its speed based on room temperature.
- Developed control algorithms using C++ and IoT, with a focus on accurate temperature sensing.
- Integrated a computer vision algorithm to display real-time temperature on a connected device screen.

Newsletter Signup Application *(2024)*
- Built a full-stack application using HTML, CSS, JavaScript, Node.js, and MongoDB to collect user information.
- Developed the backend with Express.js, enabling smooth data storage and retrieval in MongoDB.
- Implemented server-side form validation and displayed dynamic thank you pages post-submission.

Clinical Encounter Note App *(2024)*
- Developed a desktop app using C#, enabling users to create, edit, and delete clinical notes.
- Designed the app's architecture following object-oriented principles, utilizing file I/O for storing user data.
- Incorporated regex for extracting vital information from clinical notes and applied state management for UI interactions.

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Experience

<u>Responsibilities:</u> Developing and maintaining backend services using Python and Django. I collaborated closely with frontend developers to integrate server-side logic with user-facing components, ensuring seamless data communication and a cohesive user experience. I contributed to troubleshooting and debugging issues that arose in the backend, resolving bottlenecks to improve application performance. Additionally, I documented the codebase and technical designs, facilitating better team collaboration and future project enhancements.

Dec (2022) - March (2023)

Python Tutor (Volunteer)
Talent Computer Academy

May (2023) - November (2023)

Backend Developer Intern
Global IT Computer Academy

Communication

I possess strong communication skills that enable me to effectively collaborate with team members, stakeholders, and clients. I actively participate in team meetings, providing input on project requirements and updates while also listening to feedback to ensure alignment with project goals. My ability to articulate technical concepts in a clear and concise manner has helped bridge the gap between technical and non-technical team members, fostering a collaborative work environment. Additionally, I have experience documenting technical processes and designs, which aids in knowledge sharing and improves team efficiency.

Leadership

During my internship and academic projects, I have taken the initiative to lead team discussions and coordinate project tasks, ensuring timely completion of objectives. I encourage team collaboration and create an inclusive environment where all members feel comfortable sharing their ideas and concerns. By promoting a culture of feedback and continuous improvement, I have helped drive project success and motivate my peers to achieve their best work. My leadership style emphasizes accountability and support, fostering a team dynamic that enhances productivity and innovation.