Sajin Shrestha

(318) 791-6729 • 3731 Brittany Oaks, San Antonio, TX 78259• Email: sajinshrestha74@gmail.com
linkedin.com/in/SajinShrestha74

EDUCATION

UNIVERSITY OF LOUISIANA MONROE (ULM)   Monroe, LA
Bachelor of Science in Computer Science | Minor: Mathematics   Aug 2018 - May 2022
Undergraduate Coursework: Algorithms and Data Structures, Advanced Discrete Mathematics, Mathematical Statistics and Probability, Calculus, Linear Algebra, Database Management, Cryptology, Software Engineering

EDX ONLINE COURSE:
The Mechatronics Revolution   Jan 2021 - Apr 2021
Skilled Learned: **C** programming, **Microcontroller Fundamentals**,**Robotic Automation** , **Circuits and Electrical Components**, **Motors and Servos**, and **Sensors**.

UDACITY ONLINE COURSE:
Robotic Software Engineer   May 2021 - Sep 2021
Skilled Learned: **C++**, **Robotic Operating System (ROS)**, **Gazebo** (3D Design and simulator), and **Simultaneous, localization and mapping (SLAM)**.

Introduction to Computer Vision   Sep 2020 - Dec 2020
Skilled Learned: **Image processing**, **Grayer scale**, **Object detection**, and **Linear algebra matrix Operation**.

SKILLS

- Languages/Technologies: Advance in **Java**, **Python**, **C.**
                                 Beginner in **Simultaneous, localization and mapping (SLAM)** and **PID controller**
- 3D simulator: Gazebo
- Framework/Libraries: **Robotic Operating System (ROS)**, Beginner in **OpenCV**.
- Microcontroller: Arduino
- Microprocessor: Rasberry Pi
- Operating System: **Linux**,   **Mac OS**,   **Windows**.

EXPERIENCE

H.E.B.   San Antonio, TX
JAVA ENGINEER   Jul 2022 – Feb 2023

- Wrote compact and clean code using an **object-oriented design** approach and Java 8 features such as Function, Supplier, and Lambda.
- Focused on identifying appropriate design and development of **Restful API** using Spring Boot using microservice architecture.
- Designed, implemented, and tested a **failsafe and retry** logic for Restful Service which helped in reducing tickets for some basic errors while connecting services.

UNIVERSITY OF LOUISIANA MONROE   Monroe, LA
UNDERGRADUATE RESEARCHER | CINS DEPARTMENT   Aug 2019 – Aug 2020

- Worked on the Unmanned Aerial Vehicles (UAV) Data Analysis project with **Dr. William Barnett** (barnett@ulm.edu), funded by Emerging Scholar Program.
- Focused on identifying appropriate **machine intelligence** models and **algorithms** to support the analysis of geographical image data in an agricultural setting.
- Designed and implemented a **prototype** of the efficacy of various computer vision, machine intelligence methods and a comparison of statistical models used in the geographical data analysis domain.

AWARDS

Academic Scholarship – Awarded **$4,500** per year Merit Scholarship   Aug 2018 - Present
Emerging Scholar – Awarded **$1,200** for the undergraduate research   Jan 2019 - Jan 2020
National Robotics battlebot runner-up among **20 participants** – Awarded **$1,250 (NRS. 1,50,000)**   Jan 2018