

# SHAIK BALEEGHUDDIN KASHIF

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## EDUCATION

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### B. V. Raju Institute of Technology

Narsapur, Telangana, INDIA

Bachelor of Technology, *Electronics and Communication Engineering*

2019 - 2023

- GPA: 7.3/10
- Minor Project: Smart Home Automation using IOT. (October 2021)
  - Developed a wireless communication system to remotely control home appliances via mobile devices, enabling seamless operation from anywhere within the home.
  - Integrated sensors to automate appliance control based on real-time environment data, enhancing convenience and energy efficiency.
- Mini Project: Traffic Light Detection & Recognition for Self-Driving Cars. (October 2022)
  - Developed a traffic light detection and recognition system for self-driving cars using python libraries (OpenCV, TensorFlow, PyTorch) and the YOLO v3 algorithm.
  - Trained the model with the LISA traffic light dataset from Kaggle to enhance accuracy and reliability in real-world scenarios.
- Major Project: Object Detection using LiDAR for Self-Driving Cars. (February 2023)
  - Utilized Robot Operating System (ROS) to capture and process data from LiDAR sensor for object detection and recognition in self-driving cars.
  - Applied the Point Pillars method from Point Net algorithm for object recognition, integrating sensor fusion by calibrating the LiDAR sensor and camera.
  - Trained the model using KITTI LIDAR dataset to improve detection accuracy and performance.

## PROFESSIONAL EXPERIENCE

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### D. E. Shaw India Private Limited (Xpheno's Client)

Hyderabad, Telangana, INDIA

Technology Specialist

July 2023 – Present

- Alert Automation: Built automation scripts to follow the workflow to assign alerts using python, go lang.
- Alerting Tool Enhancements: Contributed to the development of alert management tool to enhance the UI using React, Redux and designed the alert violation system based on SLA time using go lang for backend.
- Reporting Portal for Managers: Build a web app for managers to track the teams progress closely just by one click using React JS as frontend and go lang as backend.
- Vendex Portal: Built a web app for maintaining a record of all the offices, vendors, their services, service maintenance record, contracts record using React as frontend and go lang as backend.
- Host DC: Built a CLI application in go lang using charm tools like bubbletea which takes list of host names as input and perform diagnostic checks on the hosts and sends the report to ticketing tool upon action selection.
- Ex-Tracker: Built a web app for tracking team party budget and maintaining the record of expenses using an internal full-stack framework (like Next JS) using React JS and Node JS.

**Schneider Electric***Hyderabad, Telangana, INDIA*

Automation Engineering Intern

*April 2023 – July 2023*

- Developed an internal progress tracking application using React JS, Node JS, SQL.
- Contributed to the development of plant monitoring autonomous robot using LiDAR, Camera, and ROS.

**TIHAN IIT Hyderabad***Hyderabad, Telangana, INDIA*

Research Intern

*October 2022 – January 2023*

- Implemented a GPS based navigation system on a bicycle to make it autonomous.
- Created a software application to facilitate communication between the user and the vehicle (autonomous taxi).

**PUBLICATIONS**

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**Object Detection System in Self-Driving Cars by Calibrated Camera and LiDAR Sensor data – Implementation of the Hybrid PointPillar Method***DOI: 10.1109/HORA58378.2023.10155780*

- Conference: 2023 5<sup>th</sup> International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA)
- Publisher: IEEE
- Year of Publish: 2023

**SKILLS**

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|--------------|----------------|----------------------|
| • JavaScript | • Node JS      | • Docker             |
| • TypeScript | • React JS     | • Kubernetes         |
| • Python     | • SQL          | • Microservices      |
| • Go Lang    | • MongoDB      | • UI/UX Design       |
| • Go Fiber   | • Git & GitHub | • Internet of Things |

**CERTIFICATIONS**

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**Self-Driving Cars***April 2022**Coursera – University of Toronto***An Introduction to Programming the Internet of Things (IOT)***March 2022**Coursera – University of California, Irvine***Google UX Design***January 2022**Coursera – Google***Google Project Management***January 2022**Coursera – Google***Python Data Structures***September 2020**Coursera – University of Michigan*