Shaik Ayman Hameed Baig

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💼 Professional Summary

"Jack of All Trades — Mastering Them All"
Multidisciplinary technologist with a proven track record in robotics, embedded systems, AI/ML, and full-stack development. Led cross-domain, high-impact projects funded by Sony, IIT Guwahati, and SRMIST. Trusted as a Project Lead in IEEE, thriving in both academic R&D and fast-paced hackathons. Resilient, self-driven, and passionate about solving complex, real-world problems with innovation and speed.

🔧 Technical Skills

- **Languages**: Python, C++, C#, Java, JavaScript, HTML/CSS

- **Domains**: AI/ML, Embedded Systems, Robotics, Consumer Electronics

- **Frameworks/Tools**: ROS2, Isaac Sim, Firebase, Tailwind, OpenAI API, Hyperledger

- **Hardware Platforms**: Micro-Controllers, sensors, IOT, Robotics

- **Software Stack**: Web Dev (Frontend + Backend), MySQL, MongoDB

🚀 Flagship Projects

Sony SSUP – Inline Pipeline Inspection Robot
Simulation Lead | $20K+ Funding | Internship

- Developed ROS2-integrated pipeline simulations in NVIDIA Isaac Sim

- Enabled test automation for navigation logic

- Integrated SONY's Hardware with ROS2

IIT Guwahati + SRMIST – Underwater Coral Monitoring Robot (Ongoing)
Hardware Lead | $26K Funding | Research Associate

- Designed waterproof, sensor-based system for ecological data collection

- Integrated SD logging, Jetson Nano, thruster control & GUI dashboard

- Under the Guidance of DR. Anousouya Devi dept of computing SRMIST

SRM IST Shuttle Bus Tracker (Ongoing)
Developer | $1.8K Funding

- Live GPS tracking + mobile app for student convenience

- Features real-time arrival prediction and route optimization

IEEE SRM – Robotics & Automation Domain
Project Lead

- Coordinated 20+ members on multiple robotics projects

- Directed technical research, prototyping, and mentorship

🧠 Product Portfolio *(All Open Source)*

Project	Stack	Value
ESP-GPT	ESP32, OpenAI API	On-device GPT assistant for real-time use
Portable Oscilloscope	ESP32, OLED, Web UI, Wi-Fi	Remote-controlled diagnostic tool
Forex Scraper	Python, GUI, BeautifulSoup	Automated economic calendar extraction
CashFlow Master	Python, Tkinter, MySQL	Multi-user finance & analytics dashboard

📁 [View on GitHub →](#)

🏆 Hackathon Achievements

HACKFEST 2025 – Top 5 (Team Something)

- Built secure ESP32-based cyber threat defense using Hyperledger

- Features: OTA firmware recovery, anomaly detection, tactical response

DAYZERO Hackathon – Top 10 (Team BattleHacks)

- Created ESP32-CAM based theft detection system with Firebase

- Took over as full-stack dev in a last-minute team reshuffle

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📊 Key Metrics & Impact

- 💰 **$47,800+** in total R&D funding across industry-academic projects

- 🏅 **Top 5 & Top 10** finishes in national hackathons

- 🔓 **Open-Source** contributor with hands-on IoT and AI tools

- 🧠 **IEEE Project Lead** mentoring teams and delivering functional prototypes

- 🌍 **Real-world deployment** of solutions in transportation, security, and marine systems

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🎓 Education

SRM Institute of Science & Technology (2024 – 2028)

B.Tech, Electronics & Communication Engineering

- **IEEE SRMIST SB** Consumer Electronics Society | Robotics & Automation Society – *Project Lead*

- ***Next Tech Lab SRMIST*** *– Tesla lab associate*

- ***Microsoft Learn Student Ambassadors SRM*** *– Technical Associate*

- **Qwiklabs Developer Club SRMIST** - Technical Team Member

Lalaji Memorial Omega International School (2011-2024)

CBSE, PCMCS

- Event Coordinator – Kalanjali 23"
- Judge of Cultural Events – Jaagriti 24"