



ARJAV PATEL

[Email](#) | [Portfolio](#) | [GitHub](#)

EDUCATION

Birla Institute of Technology and Science Pilani, Goa Campus
B.E. (Hons) Electronics and Instrumentation Engineering

South Goa, India
Aug 2023 – May 2027

EXPERIENCE

- Software Engineering Intern - Nudron IoT Solutions** Aug 2025 – Dec 2025
- Refurbished the UI of an existing Flutter codebase, improving usability and design consistency.
 - Integrated cross-platform support by merging functionalities into a unified app for iOS, Android, and Windows
- Software Engineering Intern - TechStaX** Dec 202 – Present
- Reduced the memory leaks in the application, optimized the size of the app by 50%
 - Integrated flutter application with Supabase to build a full-stack matrimony application with chat feature

POSITION OF RESPONSIBILITY

- App Development Head - Developers' Society BITS Goa** May 2025 – Present
- Leading a team of 50+ junior developers and 10 senior developers
 - Responsible for maintaining 4+ applications used in BITS Goa such as BPGC One, Fest Management Apps etc

PROJECTS

- BITS Goa Fest Management App | Flutter, Firebase, Node.js | [Google Play](#)**
- Developed a fest-wide app to manage events, passes, and schedules for Waves, Quark, and Spree
 - Handled INR 6M+ in payments with a secure integrated payment interface
- Student Welfare Division - SWD Store | Python, Django, Jinja2, MongoDB | [GitHub](#)**
- Developed SWD Store, an all-in-one platform for BITS Goa clubs and departments to sell merchandise, enabling students to browse and purchase items seamlessly
 - Built with Python (Django), MongoDB, and HTML/CSS, featuring a user-friendly UI and secure DB integration
- Night Vigil - Goa Police Hackathon | Flutter, ReactJS, FastAPI, FaceNet, AWS | [GitHub](#)**
- Developed a patrol verification platform with geofence-based check-ins, facial recognition validation, and automated duty compliance reporting during a 48-hour hackathon.
 - Added continuous location tracking and alerting to prevent geofence violations, strengthening transparency and on-ground accountability
- BPGC One | Flutter, Firebase, Node.js | [Google Play](#)**
- Developed the v1.0 of BPGC One, unifying Cabpool, Mess Menu, and BITS Eye student lookup into a single campus utility app
 - Implemented an SWD-linked payment workflow to streamline and simplify student transactions

RESEARCH AND PUBLICATIONS

- Modeling Campus Solar Generation | Research, Python, Data Visualization, Matplotlib | [Research Paper](#)**
- Conducted a research project analyzing solar power generation at BITS Goa with two faculty mentors and a four-member student team
 - Conducted power-weather correlation analysis with code and visuals on [GitHub](#).