

Academics

2025 | Bachelor's in Engineering majoring in **Electrical and Electronics Engineering**, BITS Pilani

Experience

August '22 January '23	Backend Developer: DY Patil University RIMS (Freelancing) Remote <ul style="list-style-type: none">- Designed and built a Research publications management system from scratch to streamline the process of uploading, accessing and managing publications.- Built <i>REST-APIs</i> to automatically fetch publication data using external APIs.- Integrated services like <i>Celery</i> task-queues and <i>Rabbit-MQ</i> broker service to reduce server time-outs and implement asynchronous tasks.
April '23 Present	Python Developer: Swyftin (Internship) Remote <ul style="list-style-type: none">- Working as a python developer, was responsible for developing interfaces for communication with external APIs.- Integrated mailing services like MailChimp, Hostetlogix PMS and WhatsApp Business APIs to existing services.- Utilized Microsoft's Graph REST-API for Microsoft Teams and Zapier for automation of pre-defined workflows.

Projects

- Oasis'22, Core Backend Developer**
 - Built and Deployed the backend infrastructure of BITS Pilani's cultural fest Oasis using *Django REST Framework*.
 - Managed several internal team portals and registration software to ease the participant registration flow for clubs and departments utilizing *Django* and templates. The registrations portal managed a transaction worth **40 Lacs INR** with around 2500 registrations.
 - Developed and Maintained a Wallet system, capable of performing operations asynchronously by using services like *RabbitMQ*, *Celery* and *Firebase*. The wallet system capable of food ordering, ticket purchasing and addition/transfer of money between each wallet managed to garner transactions worth **2 Cr INR**.
- BITS Open Sports Meet (BOSM'22), Core Backend Developer**
 - Developed *REST APIs* for BITS Pilani's annual sports fest's official site and App using *Django REST Framework* and *PostgreSQL* as a database service.
 - Integrated a payment gateway to facilitate payments of around **8 Lacs INR**.
 - Maintained several internal team portals using *Django* to streamline logistics during the event.
 - Developed and Maintained a wallet system for the app utilizing *Firebase's* realtime database, fixed bugs on the go while trying to minimize downtime. Managed payments of about **14 Lacs INR** using *REST APIs* written in *Django REST Framework*.
 - Deployed using *Docker* and *Nginx* on a *Digital Ocean* server.
- GO-Wallet, Backend Developer**
 - Developed a Golang version of a wallet system from scratch, which was to be used in the BITS Pilani Fest apps for transactions, ticketing and purchases.
 - Developed *REST-APIs* and Backend to support a food ordering system all with a cart functionality, order status functionality and supporting functionality for Vendors to manage their orders.
 - Implemented a transaction and ticketing system which allowed people to buy, send and add money to their wallets.
 - Developed a ticketing system and it's supporting infrastructure (ticket-scanner apps) to allow seamless entry into concerts and events.
 - Utilized Facebook's *entgo* ORM framework to communicate with the *PostgreSQL* database and form well defined schemas.
 - Used *Websockets* to provide real-time updates to the app.
- Yearbook Portal, Core Backend Developer**
 - Built and helped maintain *REST APIs* written in *Express.js* using *Node JS*.
 - Managed File Uploads and Database using *MongoDB* and *Mongoose* for over 1000 students.
 - Fixed key security vulnerabilities in the existing codebase and implemented a *JWT* based Auth System.
 - Deployed using *Docker* and *Nginx* on a *Digital Ocean* server.

Technical Skills

Languages	JavaScript (Node.js), Python, C, C++, Golang, HTML, CSS
Libraries / Frameworks	Django, Django-REST framework, Express.js
Data Storage / Handling	SQLite, MongoDB, PostgreSQL
Systems / Platforms	Azure, AWS EC2 and other linux servers
Sys Admin / Technologies	Docker, Nginx

Activities & Leadership

- **Department of Visual Media, BITS Pilani:** Backend Developer in the technical committee responsible of handling every tech-related software for BITS Pilani's fests and more.
- **Google Developer Students Clubs, BITS Pilani:** Member of Google's Developer student club of BITS Pilani, working on community development tech projects.
- **Association of Computation and Machinery, BITS Pilani:** Member of ACM's student chapter of BITS Pilani mentoring juniors and working on campus projects.
- **Student Alumni Relation Cell, BITS Pilani:** Member of the student volunteer team working under the Alumni Relations Cell of BITS Pilani responsible for organizing Alumni related events.

Technical Interests

Cloud Computing, Serverside Development, SysAdmin, DevOps, Linux and Cyber Security.