

BHAVIN T B

- LEAD ENGINEER

PERSONAL SUMMARY

Lead Engineer with 7+ years of experience in Python, Django, and Flask, building backend and data-driven systems in the airline domain. Skilled in REST API design, ETL automation, ML API integration, and authentication systems. Proven track record of delivering production-grade solutions and winning recognition at company and industry hackathons.

CONTACT

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Kerala,India
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EDUCATION

Bachelor of Technology (B.Tech)

- Met's school of engineering, Mala
- CGPA : 6.93
- 2014 : 2018

Plus Two

- Aggregate : 85%

SSLC

- Aggregate : 97%

WORK REFERENCES

- Jeswin Varghese
- Lead Product Manager - CDx
- Email: jeswin.varghese@ibsplc.com

SKILLS

Languages & Frameworks

- Python
- Django
- Flask
- FastAPI

Databases & ORM

- MySQL
- PostgreSQL
- MongoDB
- Django ORM

APIs & Backend

- REST API Design
- JWT Authentication
- Role-Based Access Control

Data Engineering & Automation

- ETL Pipelines
- Celery
- SFTP File Ingestion
- Data Cleaning & Transformation
- Lamda
- Web Scrapping

ACHIEVEMENTS

- 1st Prize – KMRL 24-hour Hackathon, 2022 (cash award)
- Top 5 Finalist – IBS x AWS AI Hackathon, 2026
- Debutant Award – IBS Software, 2021
- Best Performer Certificate – Uvionics Tech, January 2019
- Client appreciation – Delivered DRM POC feature within 24 hours during critical client evaluation

CERTIFICATIONS

PYTHON - DJANGO REST

SPECTRUM SOFTECH SOLUTION PVT. LTD
July 2018 - Oct 2018

WORK EXPERIENCE

IBS SOFTWARE — LEAD ENGINEER (MAY 2021 – PRESENT)

- Lead backend development for the Dynamic Revenue Management (DRM) platform in the airline domain.
- Designed and built automated ETL pipelines with SFTP file ingestion, data cleaning, transformation, and ML API integration.
- Implemented scheduled job orchestration using Celery for time-based and event-based automation.
- Built secure REST APIs using Django, Flask, and FastAPI, with JWT authentication and role-based access control.
- Worked with AWS services (S3, EC2, SFTP) for storage, deployment, and AI/ML integration.
- Took ownership of the Stand Allocation module after a team handover – resolved outstanding bugs and delivered to production.
- Collaborated with frontend, ML, and product teams to deliver business-critical features.

TECHVERSANT INFOTECH — SOFTWARE ENGINEER (JAN 2021 – MAY 2021)

- Built a LinkedIn automation and outreach tool for a client using Python and Selenium – scraped target profiles (CEOs, founders, decision-makers) and stored details in a structured database.
- Implemented automated multi-step messaging with scheduled reply monitoring – analyzed incoming responses, triggered the next predefined message in the conversation flow, and alerted the user to take over at the final stage.
- Developed backend features and REST APIs for client-facing applications alongside the automation work.

UVIONICS TECH INDIA PVT LTD — SOFTWARE ENGINEER (DEC 2018 – JAN 2021)

- Developed backend systems using Python, Django, and Flask with MySQL and MongoDB.
- Built a multi-threaded Python web crawler that scraped Ajax-based e-commerce sites and collected millions of records for cross-country competitor analysis.
- Designed REST APIs following RESTful architecture and HTTP best practices.
- Used Pandas, NumPy, and Matplotlib for data analysis and reporting.

WORKS

- **Dynamic Revenue Management (DRM)**

End-to-end revenue management platform for the airline domain. Built automated data pipelines that ingest files from SFTP servers on scheduled triggers, perform cleaning and transformation, and integrate with ML APIs to deliver predictions to the UI. Implemented secure REST APIs with JWT authentication and role-based access control. Used Celery for job orchestration and AWS (S3, EC2, SFTP, Bedrock) for cloud infrastructure.

- **Stand Allocation**

Constraint-based optimization engine that assigns aircraft stands to upcoming flights at airports. Aggregates data across multiple tables – flights, stands, aircraft specs, schedules, and maintenance records – and evaluates each flight-stand pairing against constraints including stand availability windows, aircraft size compatibility, pier vs remote stand type, flight priority, gap to next flight, and maintenance conflicts. Applies both soft rules and hard rules, generates a score for each pairing using a simulated annealing approach, and produces the optimal stand-to-flight allocation for ground operations.

Took ownership of the module after a team handover, resolved complex outstanding bugs, completed pending optimization logic, and delivered the system to production.

- **Belly Cargo Optimization**

AI-driven solution to optimize belly cargo space utilization for airline flights, built during a hackathon conducted by IBS in collaboration with the AWS team. Finished in the Top 5 with formal recognition.

- **KMRL First & Last Mile Connectivity**

24-hour hackathon prototype for Kochi Metro Rail Limited (KMRL), addressing first-mile and last-mile passenger connectivity to boost metro ridership and revenue. Won 1st prize among competing teams.

- **LinkedIn Automation & Outreach Tool**

Python and Selenium-based automation tool for client lead generation. Scraped target profiles (CEOs, founders, decision-makers) from managed LinkedIn pages, sent personalized predefined messages, and ran a scheduled reply-monitoring system that analyzed responses and triggered the next message in a multi-step conversation flow – with user alerts at the handoff stage.

- **Competitor Analysis Crawler**

Robust, multi-threaded, error-resistant Python crawler scraping Ajax-based e-commerce websites via API. Ran for over a month, collecting millions of records across multiple countries to support cross-country market analysis and decision-making.