

# Venu Mallik

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## Sr Full stack and Data engineering with 9 Years of experience.

### SUMMARY:

Senior engineer with 9 YOE in Full stack Data engineering roles. Believes in best practices, planning and execution to solve tasks. Looking for active growth in Remote and Contract-Independent roles.

### SKILLS:

**Python:** FastAPI, Twisted, Flask, Pandas, Pyspark, Matplotlib, Plotly dash.

**Database:** Oracle, PostgreSQL, vector databases, Cassandra, MongoDB, SQLAlchemy, Big Query, Databricks, Clickhouse.

**Java:** Collections, Guava, jax-rs, jackson serialization and hibernate ORM.

**Javascript:** Next JS, AntD, Resumable uploads, Video JS & data visualization.

**Others:** AWS S3/SES/SQS, Redis, Rabbit MQ, Firebase analytics, Google Big query, Sharepoint , microsoft graph api, video streaming, AI, RAG, LLM etc.

### PROFESSIONAL EXPERIENCE:

**Sr Data Engineer,** Innominds - Hyderabad, India

*July 2022 – present*

**Igel Insights Dashboard(July 2025 to present):** Python, pydantic, FastAPI, faker, Testing, postgresql, React js, linux and Igel OS.

- Implemented and integrated External api's with react js frontend following openapi schema, integration tests, automation, authentication etc.
- Worked on python packing for msp report tool, best practices using uv, ruff, pip, pyproject etc

**Innominds (April 2025 to June 2025):** Python, pydantic, Pydantic AI, React js, postgresql, pg-vector, RBAC, RAG, LLM, Similarity Search, MMR and AI agents.

- Created vector database from local and sharepoint documents. Applied OCR to retrieve missing information from images.
- Leveraged microsoft graph api to manage data, users and Role based vector search to block sensitive information. React UI for chat and permissions.

**FYRII/ICICI SDK (Jan 2025 to Mar 2025):** Python, pydantic, cryptography , SDK, python packaging and api library.

- Created python library over icici corporate api endpoints along with relevant data validation, data objects using pydantic and cryptographic solutions.
- Automated the code generation based on JSON SCHEMA and OPEN API specs and libraries.

**Datastax (Aug 2023 to Dec 2024):** Python/Twisted, Clojure, Java, Javascript, React js, Cassandra, Spark, distributed systems, Event driven programming.

- Migrated the legacy Cassandra Java driver (1.x) to the latest 4.x version

across multiple modules in OpsCenter-Cassandra cluster management portal.

- Implemented new features, resolved CVE's and outstanding bugs based on customer requests and assigned priority. Strengthened the project's quality assurance through the expansion of unit, integration, and automated functional tests.

**Energy Exemplar(sept 2022 to Aug 2023):** Python 3.10+, Spark, Pandas, databricks, Pydantic, Numpy, Azure devops, Plexos.

- Streamlined **European Resource Adequacy Assessment(ERAA) 2023** automation process. Lead development, review and releases. Proposed architecture changes to save 60% execution time and reduce LOC by 70%.
- Auto generated 100 pydantic classes from C# enums, to remove the steep domain learning curve for new developers as well as remove bloated config.

**Senior Python Engineer,** IBEE Solutions – Hyderabad, India **Aug 2020 – July 2022**

**Languages:** Python 3.7+, Fastapi, Flask, SQLAlchemy, Next JS, React JS with Antd, Uppy, VideoJS/Shaka Player, oauth2 Authentication Authorization, Rate limiters for api, S3 buckets, Resumable uploads to S3/OpenStack, Video Transcoding via zencoder, Payment gateways, cloudflare developer, RBAC, ACL .

**Role:** Lead Full stack developer in a team of 5.

- OTT-1: [aaonxt.com](https://aaonxt.com) <https://aao-api.ibee.ai/docs> - 12months. Shaka Player, scripting with functional react components and building FastAPI for backend.
- OTT 2 <https://minipix.in> <https://minipix-api.ibee.ai/docs> : Next js for web, API, Big Query for reports, payment gateways, sitemaps etc (4 months)

**Full stack Engineer,** Freelancer – Hyderabad, India

**Aug 2018 – Aug 2020**

**Languages:** Python 3.5, Pandas, Numpy, Matplotlib, Seaborn, Plotly Dash with React js, Flask apps and Astropy ,Pyephem, Google charts, Google sheets.

- Collect relevant data. Store & Analyze. To find repeating patterns, seasonal anomalies and variations. Eg: [Output 1](#), [Output 2](#), [Output 3](#), [Partial Repo](#) etc

**Associate system Engineer,** TCS– Chennai, India

**Sep 2016 – May 2018**

**Languages:** Java, ORACLE, PYTHON, DATA Engineering, J2EE/JaxRS, HTML/XML, JSON, SQL, Webservices.

- Lead the team in Oracle query optimization, identified performance bottlenecks to reduce execution time by more than one second.
- Developing the servicenow connector code and deploying it to the archibus and Monitoring during the beta phase.
- Worked on Archibus and EDIM (java Swing) application enhancements .

## Certifications:

- [Hadoop Internship 2015](#)
- **B Tech In Information technology| VRSEC (2016)**
- [Java certified 2017](#) , [Advanced SQL certified](#)
- [Databricks Data eng professional](#) [Azure devops /github](#)