

Full Name: Aditya Bindroo

Designation: Lead Software Engineer

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I am a software developer with 4+ years of experience in **Software development, Unit Testing, Implementation and Designing project activities**. I am looking for a challenging role where I can enhance my technical knowledge and contribute to the growth of the organization through hard work and innovation.

Technical Skills

- Programming Languages – **Python**, C, C++, Core Java.
- Databases-MYSQL, DynamoDB, PostgreSQL, SQL Server.
- Frameworks / Libraries – Pyramid , FastAPI, SQLAlchemy ORM.
- Cloud: **AWS (S3, Lambda, EC2, ELB, RDS, IAM, Athena, API Gateway)**.
- Tools Used – **PyCharm, GIT, Bitbucket, GitLab, GitHub, Nomad, Datadog, VS Code, JIRA**.
- Methodologies – **Agile**.
- Operating System – Microsoft Windows 7/8/10/11, Ubuntu.

Professional Experience

Working as **Lead Software Engineer** with **Persistent Systems**

May 2021-Present

Legacy SQL Server Modernization (Persistent Systems): -

Duration: July 2025 – Present

Technologies: Python, FastAPI, SQLAlchemy ORM, Microsoft SQL Server 2005/2008, Git.

Key Responsibilities:

- Migrating **complex legacy SQL Server 2005/2008 stored procedures** into modern **Python microservices** using **FastAPI**.
- Analyzing business logic embedded in stored procedures and re-architecting it into Python code while preserving data integrity and output accuracy.
- Implementing **SQLAlchemy ORM models** to replace raw SQL logic and enable maintainable, scalable database interactions.
- Building modular **CRUD operations and business logic layers** for improved code maintainability.
- Performing validation against legacy procedure outputs to ensure consistency.
- Collaborating with cross-functional teams to define requirements, identify edge cases, and streamline migration strategies.
- Using **Git / Agile practices** for version control, peer reviews, and iterative delivery.

Patient Portal Laboratory (Persistent Systems): -**Duration: Nov 2024 – June 2025****Technologies:** Core Java, REST APIs, Python, SQL Server, AWS (Lambda, Textract)**Key Responsibilities:**

- Developed REST APIs and modules in Patient and Access Portals, including OCR for handwritten clinical notes, automatic email triggers.
- Integrated AWS Textract + Lambda for automated handwritten notes extraction.
- Built a connector service to integrate LIMS data into report generation flow.
- Led SQL script writing for data migrations and reporting

Reports and Rule Engine (Persistent Systems)**Duration: Sept 2022 – Nov 2024****Technologies:** Python, PostgreSQL, Pyramid Framework, REST APIs, Nomad, Datadog, Alembic**Key Responsibilities:**

- Implemented REST APIs and key modules for clinical reporting and rule-based workflows.
- Developed combination reports and SNOMED-based configurations.
- Built report preview/case view components.
- Python and SQL scripts; migrated NCI trial-arm data to Database
- Improved infrastructure observability using Datadog and Nomad.

GeneOS (Persistent Systems)**Duration: Nov 2021 – July 2022****Technologies:** Python, AWS (S3, Lambda, DynamoDB, Athena, Batch, EC2, ECR, API Gateway, EventBridge, SNS)**Key Responsibilities:**

- Built ingestion pipelines for public genomics databases (ClinVar, GnomAD).
- Created Lambda-based data processing and event-driven workflows.
- Designed REST APIs for previewing data in the UI.
- Conducted PoCs with VEP and AWS OpenSearch for genomic queries.

Education

Degree	Board/University	Completion Year	Grades
BE (I.T)	SPPU	2021	9.59
Class X	CBSE	2015	87.5%
Class XII	CBSE	2017	80%

Trainings & Workshops

- **AWS Certified Cloud Practitioner** – July 2024
- Winner- Smart India Hackathon(2020).