

# Abhinava Sai Bugudi

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## EXECUTIVE SUMMARY

First Class Honours **Software Engineering** graduate with a multidisciplinary background across **Full-Stack Development, Data Science, and IT Infrastructure**. Expert in high-performance backend engineering and **Database Administration**, with a proven track record in optimizing systems to **sub-90ms latency** and managing data services processing **60,000+ records per cycle**. Proficient in the full database lifecycle, including **T-SQL development, backup/recovery strategies, and production rollouts**.

## TECHNICAL LANGUAGES & DATABASE EXPERTISE

- **Programming Languages:** Java (Advanced), Python (Advanced), SQL (Expert), JavaScript, TypeScript, R, C++, Bash.
- **Database Administration (DBA):** Proficient in **SQL Server and MySQL** administration, including user permissions and security audits.
- **Development & Scripting:** Expert in **T-SQL** for stored procedures, triggers, and complex transaction logic.
- **Operations:** Experienced in managing **Database Backups**, point-in-time recovery, and schema **Rollout** procedures.
- **Optimization:** Skilled in query tuning, indexing strategies, and analyzing execution plans to eliminate bottlenecks.

## PROFESSIONAL EXPERIENCE

### Software Engineering Intern (AI & Backend Track)

BuzNear Sanspro Technologies

Jun 2024 – Sep 2024

- **Database Operations:** Managed daily **backup and rollout** procedures for production-scale MySQL and SQL Server environments.
- **T-SQL Development:** Authored complex **T-SQL** scripts to automate data validation and reporting for 60,000+ records per cycle.
- **Production Rollouts:** Coordinated with DevOps teams to manage schema updates and application deployments across staging and production.
- **System Reliability:** Implemented automated monitoring for database health and transaction integrity.

### IT Support / AV & Systems Support Technician

University of Westminster

2022 – 2024

- **Infrastructure Admin:** Managed user identity and device permissions via **Active Directory and Microsoft 365**.
- **Hardware Lifecycle:** Performed **imaging (Windows 10/11)**, PC building, and distribution of technical assets across multiple sites.
- **Networking:** Troubleshoot complex **DNS, DHCP, and TCP/IP** issues to ensure 99.9% system uptime.

## TECHNICAL PROJECTS

### High-Throughput Business Logic Engine (Java & T-SQL)

2024

- **Data Strategy:** Designed a robust schema utilizing **T-SQL** stored procedures to manage 400–600 operations per second.
- **Recovery Backup:** Implemented automated **backup** schedules and recovery drills to ensure 0% data loss for high-frequency transactions.
- **Performance:** Reduced response times to **sub-90ms** through index optimization and transaction refinement.

### VolvoxForex Cloud Analytics Platform (AWS & Python)

2023 – Present

- **Cloud Ops:** Orchestrated infrastructure on **AWS (S3, Lambda, ECS)** with automated **CI/CD** deployment rollouts.
- **Data Integrity:** Developed SQL-based validation scripts to audit real-time financial data ingestion flows.

### Voxscribe AI Recognition System (ML & Mobile)

2024 – 2025

- **Full-Stack Integration:** Built a cross-platform mobile app in **React Native** with a Python backend and secure data storage.

## TECHNICAL SKILLS ARCHIVE

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- **DBA Skills:** T-SQL, Backup/Restore, Point-in-time Recovery, Rollout Management, Index Tuning, User Security.
- **Frameworks:** React, Next.js, React Native, FastAPI, Flask, scikit-learn, TensorFlow.
- **Cloud & Platform:** AWS (S3, Lambda, ECS), Docker, Git, GitHub Actions, Linux/Unix.
- **Support Tools:** Active Directory, Microsoft 365, Postman, Datadog, Ticketing Systems.

## EDUCATION

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**BEng Software Engineering — First Class Honours**

*University of Westminster, London*

2022 – 2025

- Key Focus: Distributed Systems, Database Management Systems, AI Machine Learning.

## CERTIFICATIONS & TRAINING

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- backups.
- **Data Science with Python and R:** Statistical analysis and predictive modeling.
- **SAS Big Data Analytics:** Processing large-scale datasets with high efficiency.

## LEADERSHIP & PERSONAL

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- **President, Westminster Chess Society:** Managed **50+ members**, applying strategic thinking to complex problem-solving.
- **Availability:** Open to hybrid roles in London and surrounding areas.

## PROFESSIONAL REFERENCES

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*Available upon request.*