

Shanmukha Bhargav Bhamidipati

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SUMMARY

Results-driven **Data Engineer & Software Engineer** with 3+ years of combined professional and internship experience in designing and implementing scalable **data solutions and full-stack applications**. Skilled in **AWS-based data engineering**, including **data pipelines, data warehouses, and data lakes**, with expertise in **data modeling, integration, optimization, and deployment**. Proficient in **ETL, SQL/NoSQL databases, microservices, REST APIs, and BI tools**. Experienced in **AWS & Azure cloud platforms, CI/CD pipelines, and Agile/Scrum collaboration**. Hold a Master's in Computer Science with a minor in AI, with strong foundations in **machine learning, cloud security, and advanced data analysis**.

EDUCATION

Florida Atlantic University– Boca Raton, FL May 2025

Master's in Computer Science, Minor in Artificial Intelligence, GPA: 3.86

- Relevant coursework: Introduction to Data Science, Software Engineering, Analysis of Algorithms, Natural Language Processing, Information Retrieval, Artificial Intelligence, Data Mining and Machine Learning, CodePath Intermediate Data Structures, Cloud Computing, Cloud Security.

SKILLS

- **Languages/Tools:** Python, SQL, R, Java, JavaScript, C#
- **Databases:** MySQL, PostgreSQL, MongoDB(SQL, NoSQL)
- **Frameworks & Tools:** Spring Boot, .NET Core, React, Angular, Kubernetes, Docker, Jenkins, PySpark, Snowflake
- **Cloud & Platforms:** AWS, Salesforce, Git/GitHub, REST APIs
- **Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch, TensorFlow, Keras
- **Other:** ETL, Data Modeling, Data Warehousing, Data Wrangling, Data Quality Checks, Statistical Analysis, Feature Engineering, Power BI, Bash (basic scripting), Compliance & Data Security Awareness

CERTIFICATIONS

• Advanced Technical Interview Preparation, Codepath May 2025

• Microsoft Azure Fundamentals, AZ-900 February 2023

• Amazon AWS Cloud Practitioner October 2025

• Amazon AWS AI Practitioner October 2025

EXPERIENCE

Data Engineer – Community Dreams Foundation (CDF) September 2025 – Present

- Designed and implemented **cloud-based data pipelines, warehouses, and data lakes**, streamlining data ingestion and reducing manual data processing by **60%**.
- Developed and deployed **data models and storage structures** to improve data retrieval and reporting efficiency, cutting query response times by **40%**.
- Integrated data from **5+ internal and external systems**, delivering a unified data view that enhanced cross-functional decision-making.
- Optimized pipelines and storage solutions for **scalability and reliability**, improving system uptime and processing performance by **30%**.

IT / Data Management Intern - H.U.G Reading Program February 2025 – August 2025

- Designed and maintained **cloud-based data pipelines using AWS (Lambda, S3, EC2)**, enhancing integrity by **40%**.
- Supported **real-time ingestion and transformation** of individual-level data using **Kafka and Athena**.
- Conducted **data profiling and analysis**, building **Excel and Power BI** dashboards to support decision-making.
- Documented data workflows, ensuring **data governance compliance** and audit traceability.
- Collaborated cross-functionally with stakeholders and senior analysts to troubleshoot data discrepancies and maintain data quality.

Associate Software Engineer - Hexaware Technologies February 2021 – September 2023

- Engineered over **15+ REST APIs** and microservices using **Java, Spring Boot, and C#** to support healthcare and financial systems.
- Optimized SQL queries and database performance for large-scale datasets using MySQL/PostgreSQL.
- Implemented **batch processing workflows** with **Spark**, boosting processing throughput by **50%**.
- Participated in **Agile/Scrum** ceremonies, sprint planning, and client demos with business stakeholders.
- Provided post-deployment support, documentation, and knowledge sharing with global teams.

PROJECTS

Real-Time Dubbing Enhancement with Wav2Lip – Machine Learning Engineer | Team of 3

- Built **Python** and **PyTorch pipelines** for real-time video dubbing, improving synchronization accuracy by **35%**.
- Deployed models using **Docker** containers for reproducible testing and scalability.

Internal Application Performance Optimization – Full Stack Developer | Team of 6

- Optimized SQL queries and backend services, achieving **40% faster response times**.
- Implemented **CI/CD pipelines** using **Docker**, **Kubernetes**, and **Jenkins**, automating deployment and testing.