Jonathan Netala | jonathan.netala@gmail.com | (804) 385-9408 | linkedin.com/in/jnetala

Education

Virginia Commonwealth University – Richmond, VA
Bachelor of Science in Computer Science (Expected May 2025)
Relevant Coursework: Data Structures and Object Programming (Java), Operating Systems (C/C++, Linux), Fundamentals of Software Engineering, Programming Languages (C, Python, Java), Database Theory (NoSQL, RDBMS), Artificial Intelligence, Natural Language Processing, Machine Learning

Technical Skills

Coding Languages: Java, C++, C#, Ruby, Python, JavaScript, Kali Linux, ANSI SQL, PostgreSQL, NoSQL, PL/SQL, Scala/Kotlin (Basic)
Cloud & Distributed Systems: Cloud Computing (AWS, GCP, Azure), AWS Lambda, Serverless Architectures, Distributed Systems, Microservices, Containerization (Docker, Kubernetes)
Data Engineering & Processing: ETL, Data Warehousing, Big Data Processing, Tableau, Apache Spark (Basic), ELK Stack
Frameworks & Methodologies: TensorFlow, Agile, Scrum, CI/CD, REST API, Atlassian (Jira, BitBucket), GitLab
Data Analysis & Development Tools: Jupyter Notebook, Tableau, Git, Flask
Certifications: GENCYBER Linux & Cybersecurity Certification, GeeksforGeeks Machine Learning & Data Science Program
Soft Skills: Time-management, Leadership, Adaptability, Problem-solving, Organization, Passionate, Hardworking, Accountable, Team-oriented

Work Experience

CoStar Group, Inc. – Richmond, VA

Software Engineering Intern (Aug 2024 – May 2025)

- Designed & automated **data ingestion pipelines**, reducing **manual data entry by 85%** using **AWS Lambda, Selenium, and Python.**
- Engineered **multi-threaded ETL workflows**, accelerating **100K+ property image retrieval by 60%**, leveraging **S3 storage management & caching**.
- Developed and maintained **scalable microservices architecture** for a **serverless real estate insights platform**, optimizing API interactions, debugging strategies, and ensuring **99.9% uptime**.

NextGen Analytics, Inc. – Monroe Township, NJ

Data Analysis Intern (Jun 2024 – Dec 2024)

- Built **Python-based web scraping solutions**, increasing **stock data retrieval accuracy by 30%**; structured **OHLC financial data** into weekly summaries for **50+ financial models**.
- Designed and deployed **predictive analytics models** using **AWS Lambda & containerized workflows**, enhancing **stock forecast accuracy by 25%.**
- Led **data engineering optimizations**, refining **Tableau-driven analytics dashboards**, cutting **processing time by 40%**, and saving **10+ hours weekly.**

Ritek Solutions – Richmond, VA

Machine Learning Intern (Apr 2020 – Sep 2020)

- Developed **ML pipelines** reducing **data preprocessing time by 40%** while ensuring **100% validation checks.**
- Achieved **88% accuracy** in **fraud detection** for **1M+ transactions**, saving **300+ hours monthly**.
- Created **predictive models** leveraging **Random Forest & Neural Networks**, generating **500+ predictive metrics** for real-time decision-making.

Project Experience

Enhanced Banking Integration: Flask, PostgreSQL, Python, Machine Learning – Developer

- Engineered **secure RESTful APIs** using **Flask & Python**, optimizing **fraud detection workflows**, reducing **processing time by 20% for 5+ banking clients.**
- Built **real-time transaction monitoring pipeline**s processing **10K+ transactions weekly**, reducing **financial fraud losses by 15%.**
- Designed and implemented **high-availability microservices architecture** with **PostgreSQL**, enabling **real-time alerts & fraud detection models.**

Paralysis Analysis Algorithm Scrubber: ELK Stack, Kibana, Elasticsearch, NLP – Developer

- Develop **NLP-driven indexing & analysis pipelines**, prioritizing **actionable insights**, reducing **content redundancy by 25%.**
- Engineer **Big Data Processing workflows** using **Elasticsearch**, analyzing **10M+ data point**s, enhancing **data visualization & user satisfaction by 30%**.
- Implement **custom dashboards** for **trend visualization**, improving key **content pattern identification** across **5+ platforms**.

Leadership Experience

Community Engagement- Mount Vernon Baptist Church – Glen Allen, VA

Food Pantry Volunteer (Jun 2022 – Present)

- Organized & managed **20+ food drives**, distributing supplies to **150+ families weekly**.
- Implemented **inventory tracking system**, reducing **food shortages by 25%** and improving efficiency by **15%**.