Mantas Alonderis

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SUMMARY

Versatile Software Development engineer adept at building and maintaining robust, scalable infrastructure and data solutions. Proficient in AWS, Terraform, and observability tools (DataDog, Elasticsearch). Experienced in implementing CI/CD pipelines, optimizing system reliability, and architecting data workflows. Excels in process automation and resolving complex operational issues. Leverages unique background in embedded systems to enhance performance and reliability across infrastructure and data ecosystems.

EXPERIENCE

Data Observability Engineer | Comcast | Philadelphia | August 2023 - Present

· Spearheaded transition from embedded systems to data observability, applying expertise in data analysis and system optimization.
· Engineered data collection and analysis processes for edge devices, elevating data quality by 40%.
· Architected advanced anomaly detection algorithms, cutting false positive alerts by 60%.
· Led collaboration between hardware and data science teams, boosting system performance by 25%.
· Pioneered application of machine learning techniques from signal processing, accelerating system failure detection by 30%.
· Established Git and GitHub workflows for source code management, enhancing code quality and team collaboration.
· Optimized CI/CD pipelines using Github Actions or AWS CodePipeline, reducing deployment times by 40% and increasing release frequency.
· Designed and implemented comprehensive data observability solutions, decreasing data-related incidents by 35%.
· Built AWS, Terraform, and DataDog monitoring systems, achieving 99.9% visibility into critical data pipelines.
· Developed real-time data health dashboards and KPI tracking systems, slashing issue detection time by 50%.
· Implemented end-to-end data lineage tracking, expediting root cause analysis and enhancing data governance.
· Led mentorship programs on data observability best practices, cultivating a culture of data quality and reliability.

Broadband Embedded System Analysis and Triage Squad Lead | Comcast | Philadelphia, PA | January 2022 - July 2023

· Led WiFi service optimization team, automating triage processes to boost productivity by 15%.
· Implemented QA processes for firmware stability, specializing in WiFi anomaly detection and resolution.
· Automated device performance data analysis workflows with SQL and Python scripts, reducing triage times by 10%.
· Developed Python scripts to automate WiFi anomaly triage, significantly enhancing squad efficiency.

PROJECTS

Comprehensive Data Observability and Anomaly Detection System | Comcast | August 2023 - Present

· Architected monitoring infrastructure using Terraform, AWS services (CloudWatch, Lambda, SNS, SQS, S3), and Datadog.
· Implemented CI/CD pipelines with GitHub Actions, automating infrastructure and configuration updates.
· Optimized data pipelines using Apache Spark, enhancing large-scale data processing and analysis efficiency.
· Developed machine learning models for predictive analytics, improving trend forecasting accuracy.
· Integrated custom alerting mechanisms with messaging services via webhooks and APIs, enhancing incident response.
· Implemented Elasticsearch and Kibana for application-level logging and performance visualization.
· Slashed anomaly detection time by 60% and issue resolution time by 40% through advanced algorithms.
· Boosted system reliability by 25% with automated issue resolution and continuous monitoring.
· Achieved 99.99% uptime for critical data pipelines through robust infrastructure and efficient alerting mechanisms.

EDUCATION

Batchelor's in Telecommunications engineering | Vilnius Gediminas Technical University | Minor in Electronics engineering | Vilnius, Lithuania | 2021 | 3.7

SKILLS

– Technical Skills: Embedded Systems, Signal Processing, AWS (Lambda, DynamoDB, S3, SNS, CloudWatch, Cloudformation, etc.), Terraform, Apache Spark, Python, SQL, Elasticsearch, Kibana, DataDog, Grafana, GitHub Actions, Docker, Kubernetes
– Data Management: Data Quality Monitoring, Anomaly Detection, Log Analysis, Data Lineage Tracking, SLA Management
– Data Engineering: ETL Pipelines, Data Warehousing, Real-time Data Processing
– Domain Expertise: Broadband Systems, Network Protocols, IoT Data Analytics
– Soft Skills: Leadership, Communication, Problem-solving, Decision-making, Cross-functional Collaboration
– Languages: English, Russian, Lithuanian