

# Lucas Meyer

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Reisterstown, 21136 MD | +1 404 789 4299 | lucas@lucascmeyer.com

## **Summary**

Software Engineer passionate about developing applications and architectures to create new products. Prior experience in industries such as finance, broadcasting, and supply chain.

## **Experience**

### **Senior Software Engineer (Tech Lead) | Stansberry Research | Nov. 2020 – Feb. 2025**

Architecture and management of cloud infrastructures for financial data processing, newsletter publishing, streaming services, and API integrations.

Collaboration with executives to align technical solutions with business goals and inform strategic decisions.

Mentoring of software engineers and promotion of best practices across the team.

Technologies: Python, Java, JavaScript, AWS (CloudFront, Load Balancers, Route 53, EC2, ECS, Lambda, S3, RDS), PostgreSQL, MongoDB, Redis, S&P Xpressfeed, Barchart, CoinGecko.

### **Senior Software Engineer | The Home Depot – American Software Inc. | Nov. 2019 – Oct. 2020**

Development of full-stack applications for supply chain replenishment systems, optimizing workflows and enhancing user experience.

Technologies: Python, Java, JavaScript, Kotlin, React, Node.js, GCP (Airflow, Dataflow, BigQuery, GKE), Teradata.

### **Project Engineer III | ESPN | Jan. 2017 – May 2019**

#### **Project Analyst I (Jan. 2016 – Dec. 2016)**

#### **Project Engineering Intern (Jan. 2015 – Dec. 2015)**

Development of applications to integrate with broadcasting equipment and IP/SDI workflows, enhancing live production systems.

Creation of touchscreen applications and in-house tools that connected with sports APIs, improving TV newsroom production with real-time statistics and features.

Research in computer vision, developing a live object tracking system for soccer players to deliver real-time positional data.

Mentoring of analysts and engineers, helping them transition into the development of software for broadcasting applications.

Technologies: C#, Java, Python, JavaScript, .NET, WPF, JavaFX, OpenCV, TensorFlow, MySQL, FFMPEG, DirectShow.

## **Education**

### **Self-Driving Car Engineer Nanodegree | Udacity | Jan. 2016 – Dec. 2016**

Hands-on experience in Computer Vision, Deep Learning, and Sensor Fusion.

### **B.S. Industrial Engineering | The University Center of FEI | Jan. 2011 – Dec. 2016**

**Honors:** First place award for thesis on predictive modeling with neural networks and multivariate statistics.

### **B.S. Industrial Engineering | Mercer University | Aug. 2013 – Aug. 2014**

**Honors:** IIE-sponsored scholarship for academic excellence in industrial engineering studies. Dean's List.

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## ***Costa & Associates (Founder & Technical Lead)***

Engineering of production-grade software with real-time data capabilities, leveraging on-premise servers, CDNs, and multi-layer caching for optimal performance and scalability. Design and implementation of secure network architectures, integrating custom security measures and data distribution systems across cloud and on-premise environments. Technologies: Python, JavaScript, AWS (EC2, Lambda, S3), PostgreSQL, MongoDB, Redis, Docker, CDNs, on-premise infrastructure.

## ***Projects***

### **Alerts for Financial Markets and Publishing**

Architecture of real-time alerting system linked to financial data streams and newsletters, delivering notifications via SMS, email, and API.

### **Application of Quantitative Models for Patient Arrivals Forecasting in a General Out-patient Clinic.**

Thesis presenting different statistical methods, moving averages, sine curve regressions, ARIMA, and the application of recursive neural networks for time series studies. The case study uses historical data from a General Out-patient Clinic to forecast the arrival of patients and to compare their efficiencies and errors, enabling further discussions in how to better schedule and stock the materials and human resources used by the hospital. Awarded first place at INOVA FEL, Industrial Engineering, 2016.

### **Architecture Design and Migration**

Migration of repositories to more efficient and scalable architectures. Automation of deployment processes for containerized clusters, orchestration pipelines, serverless computing, virtual private servers, and networking architectures. Design and development of repositories supporting multiple technology stacks with a standardized approach to deployment, testing, and organization.

### **Financial Data Ingestion and Aggregation**

Design and implementation of data ingestion processes for public financial data filings, private APIs, and custom protocols. Development and deployment of pipelines for orchestrating job runs.

### **Multimedia Conversion System**

Creation of multimedia conversion application used for automatic schedule and conversion of videos and audios. The suite is able to work with multiple codecs such as H264, DVCPRO HD, AAC, MPEG 1 Audio, etc, being used for multimedia workflows in-house.

### **Open Source Technical Analysis Software**

Licensed under GNU GPLv3, real-time stocks data, possibility to analyze multiple charts and use of annotations and indicators for Technical Analysis. Creation of custom scripts for indicators and robot trading.

### **Self-Driving Car System Integration Project**

Creation of autonomous car system. Traffic lights, translation and rotation variables are taken into consideration, and also the comfort of the passengers inside the car, such as maximum jerk, acceleration and velocity values were applied while implementing the car controls. Computer Vision, Deep Learning, Sensor Fusion, Path Planning, Robot Controllers and other technologies and concepts were used.

### **Social Marketplace Platform**

Architecture and development of application designed to empower users by providing a multifaceted platform for sharing images, videos, text, and products for sale. It enables pay-per-view content, integrates a robust chatting application, and incorporates advanced streaming technologies alongside a secure payment system.

*To discuss other projects, feel free to reach out via email or visit my portfolio at [lucascmeyer.com](http://lucascmeyer.com).*