Kaushal Dontula — *Senior Engineering & Product Executive*

✉ kaushal.dontula@gmail.com

📍 Greater Tampa Bay Area, United States

in https://www.linkedin.com/in/kaushaldontula/

🔗 https://dontula.com/

PROFILE

Senior Engineering and Product executive with over a decade of experience in architecting scalable AI & Cloud solutions and leading high-performing global teams. Proven track record in transforming ambitious technical concepts into market-defining solutions, bridging the gap between engineering execution and business strategy. Specialized in AI/ML integration, microservices migration, and high-throughput data pipelines.

WORK EXPERIENCE

02/2022 – Present
GREATER TAMPA BAY AREA

microDrive, *Senior Vice President of Engineering*

- Architected and led the development of a flagship **AI-powered social media intelligence platform**, leveraging **Machine Learning and NLP** to extract actionable audience insights.
- Led the enterprise-wide **microservices migration** from monolithic architecture using **Docker** and **Kubernetes**, achieving 99.95% availability.
- Built high-throughput **ML data pipeline infrastructure** using **Golang**, **Kafka**, and **Redis**, processing 1M+ events per second with 99.9% uptime.
- Established an internal **developer platform** with automated code quality and security scanning, reducing review time by 50%.
- Managed a strategic roadmap for **AI integration**, transforming marketing tools into predictive analytics engines.

05/2020 – 10/2021
COLOGNE, NORTH RHINE-WESTPHALIA, GERMANY

InfluencerDB, *Vice President of Engineering*

- Spearheaded the rollout of an **AI-driven intelligent chat routing system**, utilizing **ML classifiers** to automate ticket assignment.
- Implemented **Natural Language Processing (NLP)** logic to analyze customer intent, reducing human intervention and optimizing workflows.
- Architected scalable backends on **AWS (EC2, S3)** and optimized database performance.
- Reduced codebase size by 50% while fixing critical bugs and ensuring high uptime.
- Managed risk registers and conducted GAP analysis to ensure project alignment with stakeholder expectations.

09/2018 – 05/2020
COLOGNE AREA, GERMANY

InfluencerDB, *Senior Software Engineer*

- Engineered backend solutions using **Python (Django)**, optimizing data models for performance in data-intensive applications.
- Developed high-performance background processing pipelines with **Celery** for large-scale data ingestion.
- Enforced PEP-8 coding standards and achieved high code quality through rigorous unit and integration testing.

01/2018 – 08/2018
DÜSSELDORF AREA, GERMANY

Zoro Tools Europe GmbH, *Software Engineer*

- Primary point of contact for **NetSuite** application support and customization.
- Rapidly prototyped new capabilities and delivered design documentation for custom system integrations.

07/2017 – 12/2017	**Stealth Startup,** *Founder*
	• Founded a startup in the home automation sector, focusing on simplifying integration techniques.

02/2015 – 06/2017 BUFFALO GROVE, IL, USA	**Zoro US,** *Full Stack Developer*
	• Developed full stack applications using **Python**, **JavaScript**, and **Bootstrap**.
	• Fine-tuned database schemas, reducing query times by 40%.
	• Increased Python/JS code coverage to 85% with unit tests.

05/2012 – 06/2013 BENGALURU AREA, INDIA	**DataMine InfoTech,** *Android Developer*
	• Designed and built advanced Android applications; collaborated with cross-functional teams for feature delivery.

EDUCATION

Computer Science | Master of Science (MS), *Illinois Institute of Technology*
• Masters of computer science

Information Technology | Bachelor of Technology (BTech), *Jawaharlal Nehru Technological University*
• Bachelor of Technology (B.Tech) in Information Technology (IT).

PROJECTS

AI-Powered Social Media Intelligence Platform
• **Tech**: Python, TensorFlow, React, Node.js, AWS
• **Result**: Processed 50M+ posts daily with sub-second latency; improved sentiment accuracy by 35%.

Intelligent Chat Routing System
• **Tech**: Python, FastAPI, scikit-learn, Redis, Docker
• **Result**: Reduced average handle time (AHT) by 25% and ticket transfer rate by 40%.

Scalable ML Data Pipeline Infrastructure
• **Tech**: Python, Kubernetes, Apache Airflow, MLflow, Terraform
• **Result**: Reduced model deployment time from weeks to hours and standardized definitions across 15+ models.

Core Competencies

Leadership
Technical Leadership, Product Strategy, Team Building, Innovation Management, Agile Methodologies (Scrum, Kanban).

Architecture
Cloud Architecture (AWS), Distributed Systems, Microservices, Scalable Backend Design, MLOps.

AI & Data
Machine Learning, NLP, LLM Orchestration, Agentic AI, Kafka, Redis, ElasticSearch, Spark.

Languages/Frameworks
Golang, Python (Django), JavaScript (React, Node.js), Java (Spring Boot), SQL/NoSQL.

Volunteering

YouthBuild USA
Education Support - Supporting initiatives to transform lives and rebuild communities through education.