

**Dmitry Roitman** 150 West End Avenue, Brooklyn, NY 11235 | Phone: 718 404 6471 | [dmitryro@gmail.com](mailto:dmitryro@gmail.com)

LinkedIn: <https://www.linkedin.com/in/dmitry-r-4104b56/> | Website: <https://linktr.ee/dmitryro>

| GitHub: <https://github.com/dmitryro>

**SUMMARY:** I'm a seasoned Software Engineer with two decades of experience building scalable, high-performance applications. I've worked across the full stack, from front-end to back-end, and have a knack for creating robust data systems, distributed architectures, and ML-driven solutions. I've managed major development efforts, mentored engineers, and driven innovation to deliver reliable, real-time platforms. My strengths lie in designing platform architecture, streamlining data and MLOps pipelines, managing real-time data systems, and implementing secure, compliant cloud infrastructure (HIPAA, SOC2), all while keeping systems observable, scalable, maintainable and efficient.

**KEY STRENGTHS:** Platform architecture • MLOps pipelines • Real-time data systems • Infrastructure as Code • Observability • Data Modeling • Secure cloud deployment (**HIPAA, SOC2**)

### **TECHNICAL SKILLS:**

#### **Programming Languages:**

- **Python:** Flask, FastAPI, Django, Pandas, SQLAlchemy, Alembic, Pydantic, Polars (15 years)
- **Go:** Gin, Chi, GORM for scalable systems (12 years)
- **Java:** Spring Boot, Spring REST, Akka, Tomcat, JBoss (20 years)
- **C#/.NET:** .NET Core, ASP.NET, Entity Framework Core (10 years)
- **JavaScript/TypeScript:** Angular, Vue, React, Node.js, Next.js, Svelte, Tailwind CSS (12 years)
- **Rust** (Serde, Tokio, Actix Web for ML middleware, 6 years)

#### **Data Engineering and Databases:**

- **Data Engineering:** Apache Airflow, Snowflake, AWS Redshift, BigQuery, DBT, Databricks, Apache Spark, Apache Flink (12 years)
- **Messaging:** Kafka, RabbitMQ, Celery, AWS Kinesis, ZeroMQ, Debezium (12 years)
- **RDBMS:** PostgreSQL, MySQL, CockroachDB, Cosmos DB (25 years)
- **NoSQL:** Redis, DynamoDB, Neo4j, Elasticsearch, MongoDB (15 years)

#### **Cloud and DevOps:**

- **Cloud:** AWS (SageMaker, Textract, Lambda, S3, RDS, 13 years), Google Cloud (Cloud Functions, Document AI, 10 years), Azure (10 years)
- **CI/CD:** Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, ELK Stack, Grafana, Prometheus (12 years)
- **Middleware and Web/App Servers:** Nginx, Apache, Gunicorn, UWSGI.
- **Observability:** Datadog, New Relic, OpenTelemetry, Sentry (10 years)
- **Code Quality:** SonarQube (8 years)

#### **Frontend and Visualization:**

- **Frameworks:** React, Vue, Angular, Next.js, Nuxt.js, D3.js, Three.js, HighCharts (12 years)
- **Tools:** Tailwind CSS, Bootstrap, SASS, Stylus, PostCSS, Babel, Yarn, npm (15 years)
- **BI Tools:** Tableau, PowerBI (15 years)

#### **Machine Learning and AI:**

- **Frameworks and Libraries:** PyTorch, TensorFlow, Keras, Fast.ai, Scikit-Learn, Spacy, Stanza, NLTK, Gensim, Hugging Face, LangChain, LangGraph, LlamaIndex (5-6 years)
- **MLOps & Pipelines:** MLflow, Kubeflow, Dagster, Prefect (8 years)

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### **Version Control and Leadership:**

- **Version Control:** GitHub, Bitbucket (15 years)
- **Leadership:** Tech mentorship, stakeholder management, Agile, TOGAF, Six Sigma (20 years)

### **Software Architecture & Compliance:**

- Domain-Driven Design, Event-Driven Architectures, Microservices, CQRS (15 years)
- Compliance: HIPAA, FHIR/HL7, SOC2, PCI, HITRUST (10 years)
- Tech Leadership, Mentorship, Stakeholder Management, Knowledge Transfer (15 years)

**LANGUAGES:** English (fluent), Russian (fluent), Hebrew (fluent)

### **EDUCATION: Bachelor of Science in Math and Computer Science**

*University of Haifa, Haifa, Israel 09/1995 - 08/1999*

### **CERTIFICATIONS: SUN Certified Java Programmer**

### **PROFESSIONAL EXPERIENCE:**

#### **Senior Staff Engineer**

Feb 2021 – Now

*Legend Energy Advisors, New York, NY*

- Architected a SaaS analytics platform for utility optimization, reducing latency by **25%** using Python, Angular, FastAPI, and Kubernetes.
- Mentored 3 engineers on microservices, event-driven design, ML/ETL/Angular/Python best practices, observability and DevOps, accelerating project delivery by **20%**.
- Refactored legacy backend services with C#.NET Core and Python, leveraging SonarQube to cut technical debt by **35%** and enhance maintainability.
- Engineered real-time streaming solutions with Kafka, WebSocket, and Redis, boosting throughput by **30%**.
- Delivered secure SSO with OAuth2, JWT, and Okta, achieving **SOC2** compliance and reducing authentication overhead by **20%**.
- Designed scalable session management, data streaming, and observability systems using Go, Kafka, and Debezium within a Kubernetes environment—reducing CPU load by **15%** and enabling real-time ML model monitoring. Integrated Datadog, New Relic, and Sentry for alerting and error tracking, improving system visibility and reducing incident resolution time by **30%**.
- Built and deployed a scalable OCR platform and NLP-based processing pipeline using AWS SageMaker, AWS Textract, GCP Document AI, and FastAPI, integrating Angular for the UI and models from Hugging Face and OpenAI for NLP-based error detection - reducing manual document processing time by **30%** and improving invoice insights by **40%**.
- Led IoT integrations (LoRa, WebSocket, Itron), enabling real-time monitoring and reducing data latency by **10%**.
- Orchestrated CI/CD pipelines with Jenkins, Docker, and GitHub Actions, integrating observability (OpenTelemetry, Datadog, ELK Stack) to ensure 99.9% uptime and reduce vulnerabilities by 40%.
- Implemented **SOC2**-compliant security measures with OAuth2, JWT, Okta, and Microsoft SSO, ensuring secure user authentication and data handling in a cloud-native architecture.

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**Technologies:** Python, Go, FastAPI, Gin, GORM, Angular, Kafka, Debezium, Redis, WebSocket, Hugging Face, OpenAI, PyTorch, Spacy, AWS (SageMaker, Textract, Lambda), GCP (Document AI), Kubernetes, Docker, Jenkins, GitHub Actions, Apache Airflow, OpenTelemetry, Datadog, New Relic, Sentry, ELK Stack, Grafana, OAuth2, JWT, Okta, SonarQube, D3.js, Three.js, HighCharts, Proxmox, VMWare, Debian.

## **Solutions Architect**

July 2018 – Feb 2021

*1010data, New York, NY*

- Designed MLOps pipelines using PyTorch, Scikit-Learn, NLTK and Spacy, training predictive models for retail analytics, achieving **15%** improvement in forecast accuracy for clients.
- Built ETL pipelines with Apache Airflow and Databricks, processing **10TB+** of data daily into Snowflake, AWS Redshift, and 1010data warehouse for ML model training.
- Architected HIPAA-compliant **FHIR/HL7/EDI** integrations with Spring Boot and Smile CDR, enabling secure data exchange for healthcare clients.
- Automated multi-cloud infrastructure with Terraform and Kubernetes, reducing deployment time by **30%** across AWS and GCP
- Optimized microservices with Java, Go, and .NET Core, improving API response times by 20% for retail analytics platforms
- Built observability systems with ELK Stack and Datadog, achieving 99.8% system availability and reducing MTTR by **25%**.
- Consulted data engineering teams on ML-driven ETL architectures, optimizing pipelines for performance, cost, and compliance with HIPAA standards.
- Consulted data engineering teams on ETL pipelines using Python, Java, Airflow, Celery, RabbitMQ, Kafka, AWS, GCP, MS Azure.

**Technologies:** Python, Django, Spacy, NLTK, Java, Go, .NET Core, Spring Boot, Airflow, Apache Kafka, RabbitMQ, Celery, Databricks, Apache Spark, Snowflake, AWS Redshift, PostgreSQL, CockroachDB, AWS, GCP, Azure, Terraform, Kubernetes, ELK Stack, Datadog, FHIR/HL7, EDI, Smile CDR.

## **Senior Developer**

July 2016 – July 2018

*Thirstie, New York, NY*

- Developed a scalable marketplace platform with Python, Tornado, and Celery, integrating ML models for personalized recommendations, increasing user engagement by **10%**.
- Designed platform data schema, models, and authorization services with JWT, including SSO evaluation, to support secure transactions.
- Optimized data pipelines using Redis and Apache Kafka, enabling real-time data processing for ML-driven features.
- Automated CI/CD pipelines with Jenkins and Docker, streamlining deployment of ML models and reducing release cycles by **25%**.
- Integrated third-party services (Braintree Payments, TaxJar, Twilio) to enhance platform functionality, supporting ML-driven features.

**Technologies:** Python, Tornado, Flask, Django, Celery, React, Stylus, Redis, Apache Kafka, Jenkins, Docker, JWT, Braintree, TaxJar, Twilio

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## **ADDITIONAL EXPERIENCE:**

### **Senior Developer / Architect**

Jan 2015 – Jul 2016

*Art Revolution, New York, NY*

- Built a Django-based social platform with advanced media processing, messaging, and integrations (OAuth2, UPS, USPS, Braintree), supporting user engagement.
- Developed ML pipelines for image classification using Keras and TensorFlow, improving classification accuracy by 18% for media content.
- Performed DevOps tasks, including CI/CD pipelines with Docker, Ansible, and AWS infrastructure, supporting ML deployments.

**Technologies:** Python, Django, Keras, TensorFlow, Docker, Ansible, AWS, OAuth2, Braintree.

### **Integration Developer/Architect**

Jan 2014 – Jan 2015

*Signetics, New York, NY*

- Designed B2B integration systems with Python, Node.js, and SOAP, supporting data pipelines for analytics and reporting.
- Built custom job-handling and log analysis tools with Redis, Tornado, and D3.js, improving system monitoring.
- Configured system security with Kerberos and OpenSSL, ensuring secure data transfers for integration systems.

**Technologies:** Python, Node.js, SOAP, Redis, Tornado, D3.js, Kerberos, OpenSSL

### **Senior Developer**

Sep 2013 – Jan 2014

*CPX Interactive, New York, NY*

- Developed RESTful APIs for feed aggregation, integrating social data for potential ML model training.
- Built scalable backend infrastructure with Django, Tornado, and Redis, supporting high-throughput data processing.

**Technologies:** Python, Django, Tornado, Redis, Nginx, AWS

### **Independent Consultant/Freelancer**

Feb 2009 – Dec 2014

*New York, NY*

- Developed custom ML solutions, including data scraping and visualization with BeautifulSoup and D3.js, for various clients.
- Enhanced donation workflows and membership features for Covenant House using Django, Flask, PostgreSQL, MySQL, improving donor engagement.
- Delivered websites using Django, Flask, PostgreSQL, MySQL, and custom PHP/JavaScript solutions, supporting small businesses.

**Technologies:** Python, Django, Flask, BeautifulSoup, D3.js, PostgreSQL, MySQL, PHP, JavaScript

### **Java Software Developer**

Jan 2001 – Feb 2009

*Algorithmic Creations, New York, NY*

- Developed payment processing systems for ClickAndBuy using Java, J2EE, Hibernate, and Spring Framework, ensuring scalability with JBoss and Apache Tomcat.
- Integrated third-party APIs (Axis 1.4) and optimized backend databases (MySQL, Oracle), supporting high-volume transactions.

**Technologies:** Java, J2EE, Hibernate, Spring Framework, JBoss, Apache Tomcat, Axis 1.4, MySQL, Oracle