

**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>

**OBJECTIVE:** With over 20 years of experience in application development and architecture, I am seeking senior, staff-level or principal-level roles that leverage my expertise while offering opportunities for growth and knowledge sharing.

## **TECHNICAL SKILLS:**

### **Programming Languages:**

- Python: Flask, Django, Django Rest Framework, FastAPI, Tornado, Pandas, Polars, Numpy, Pydantic, SQLAlchemy, Alembic, Pydantic (15 years)
- Java: Spring, Spring Boot, Spring Rest, Play, Websphere, JBoss, Tomcat, Akka (20 years)
- Go: Web Application, Middleware, System Development, GORM, Gin, Chi, Mux (12 years)
- C# and .NET: .NET Core, ASP.NET (8 years)
- Scala: AKKA (5 years)
- Rust: System Development, Middleware, Serde, async-std, Tokio, Rocket, Actix Web (5 years)
- JavaScript / TypeScript: Angular, React/Redux/Next.js, Vue/Nuxt.js, Node.js, Express.js, RXJS, D3.js, Three.js, Svelte, Tailwind CSS, SASS/SCSS (12 years)

### **Cloud and DevOps:**

- Cloud Infrastructure: AWS (IAM, EC2, S3, VPC, CloudFormation, Lambda, ELB, SageMaker, AWS Textract, boto3, etc.) (13 years), Google Cloud, GC Document AI, MS Azure (10 years)
- CI/CD: Jenkins, Docker, Kubernetes, ArgoCD, Terraform, Sentry, Pulumi, Ansible, Looker, Datadog, New Relic, Prometheus, Grafana, OpenTelemetry, GitLab, Github Actions, ELK Stack, MLflow, Kubeflow, DVC, Dagster, Prefect (12 years)

### **Data Engineering and Messaging:**

- Data Engineering: Apache Airflow, Luigi, OpenLineage, Snowflake, BigQuery, Redshift, DBT, Databricks, Apache Spark, Cassandra, Parquet, Apache Arrow, Apache Flink (12 years).
- Messaging: Celery, Apache Kafka, AWS Kinesis, RabbitMQ, AMQP, MQTT, WebSocket, Samza, ZeroMQ, Debezium (12 years)

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

- Custom Model Development, Training and Deployment: NumPy, SciPy, PyTorch, PyJanitor, Pandas, Keras, Tensorflow, Fast.ai, Spacy, SymPy, Stanza, Gensim, NLTK, Sklearn (12 years).
- Third Party LLM and RAG integrations: OpenAI, Hugging Face (5 years)

### **Databases:**

- RDBMS/SQL: PostgreSQL, MySQL, Cosmos DB, CockroachDB, SQL (25 years)
- NoSQL: Redis, CouchDB, DynamoDB, Neo4J, Cypher, Memgraph, ElasticSearch (15 years)

### **Integration, Security, Networking and Compliance:**

- Integration: REST, GraphQL, gRPC, SOAP, FHIR/HL7, HAPI-FHIR, JWT, Apollo (15 years)
- Security: SSL/TLS, OpenSSL, RSA, LDAP, OAuth2, JWT, Okta, SAML, OpenID (15 years)
- Networking: TCP, UDP, MQTT, AMQP, HTTP, HTTPS, Websocket (15 years)
- Compliance: SoC2, HIPAA, PCI (10 years)

### **Linux System Administration and Virtualization:**

- Sys. Administration: Shell Scripting, Debian/Ubuntu, RHEL, Bash, AWK, Backups (15 years)
- Virtualization: ProxMox, Qemu, VMWare, Virtuozzo, Xen (15 years)

### **Data Scraping, Search and Visualization:**

- Data Scraping: BeautifulSoup, Scrapy (10 years)
- Visualizations: D3.js, Three.js, HighCharts, Tableau, PowerBI, OpenGL (15 years)
- Apache Solr, Haystack, Lucene, Xapian, ElasticSearch (10 years)

### **Version Control:**

- Git (GitHub, Bitbucket) (15 years), Subversion (10 years)

### **Software Architecture, Leadership and Software Development Lifecycle:**

- SDLC: TOGAF, Six Sigma, Zachman, Solutions Architecture, Agile (20 years)
- System Design: Domain Driven Design, Event Driven Architectures, Applications of SOLID/ DRY, CQRS, Architecture Patterns, Microservices, Tradeoff Analysis (15 years)
- Soft Skills: Technical Leadership, Mentorship, Stakeholder Management, Knowledge Transfer, Team Building (20 years).

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## **LANGUAGES:**

- English (full fluency)
- Russian (full fluency)
- Hebrew (full fluency)

## **EDUCATION:**

From: 09/1995. To: 08/1999.

UNIVERSITY OF HAIFA, Haifa, Israel

Degree Earned: Bachelor of Science in Math and Computer Science

## **CERTIFICATIONS: SUN CERTIFIED JAVA PROGRAMMER**

## **PROFESSIONAL EXPERIENCE:**

Senior Staff Engineer

Feb 2021 – Now

Legend Energy Advisors, New York, NY

- Architected, implemented and documented the corporate analytics SaaS platform used to monitor and optimize utility (electricity, gas, water) consumption and customer budgets, leveraging advanced analytics and actionable insights.
- Architected and built scalable session management, data streaming, and analytics dashboards with Python, PostgreSQL, RabbitMQ, FastAPI, Django, Angular, and WebSocket.
- Developed and maintained RabbitMQ-based messaging infrastructure to enable seamless communication and scaling across the platform.
- Designed and integrated dynamic data visualization tools (dashboards, charts, analysis) using D3.js, Three.js, HighCharts, and Pandas.
- Spearheaded observability initiatives with Go, Kafka, Debezium, ELK Stack, PostgreSQL, and Angular for enhanced system monitoring.
- Engineered asynchronous task systems with Celery, improving task management for diverse corporate applications.
- Led integration of IoT, LoRa, WebSocket, and Itron platforms, delivering cutting-edge solutions for client utilities.
- Built secure Single Sign-On (SSO) features with OAuth2, JWT, Okta, and Microsoft to streamline user authentication.
- Created internal monitoring tools using Angular, Python, and Celery to support operational insights.
- Developed complex OCR processing pipelines utilizing PyTorch, Spacy, AWS Textract, and machine learning models (Hugging Face, OpenAI).
- Delivered platform API MVP and new versions using .NET Core 7 and C#, modernizing back-end architecture.
- Provided the implementation of middleware, conversational messaging and notifications infrastructure in Rust and ZeroMQ for extended platform features.

**Technologies:** Python, Go, Angular, TypeScript, Rust, Flask, FastAPI, Django, PostgreSQL, RabbitMQ, Redis, Celery, WebSocket, D3.js, Three.js, HighCharts, Pandas, PyJanitor, OpenAPI, ELK Stack, Grafana, Datadog, Docker, Kubernetes, AWS (Textract, SageMaker), GCP, Terraform, Pulumi, Jenkins, Looker, Prometheus, PowerBI, Rust, ZeroMQ, .NET Core, C#, Azure Cosmos DB, Hugging Face, OpenAI, Okta, ZeroMQ, Dagster, Prefect, DBT, Pandas, Pydantic, Polars, Kafka, Debezium.

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**Solutions Architect**

**July 2018 – Feb 2021**

**1010data, New York, NY**

- Architected and implemented ETL pipelines using Airflow DAGs, custom operators, and plugins ingesting data into AWS Redshift, Snowflake, Databricks, 1010data warehouse.
- Migrated Flask projects to Dockerized environments, leading orchestration, technology stack selection, and stakeholder negotiations.
- Designed and deployed event-driven infrastructures using Apache Kafka and AWS services for highly available solutions.
- Built and optimized HIPAA-compliant interoperability and FHIR/HL7 data ingestion and analysis, utilized SMART on FHIR to improve security and interoperability between medical data providers.
- Built and optimized MLOps pipelines using PyTorch, Scikit-Learn, and Spacy, training and maintaining ML models.
- Automated infrastructure provisioning with Terraform and Ansible, ensuring scalability and reliability across multi-tier cloud architectures.
- Evaluated third-party tools, optimized existing architectures for cost efficiency, and ensured compliance with organizational policies.
- Collaborated cross-functionally to develop innovative solutions, meeting business goals while managing multiple concurrent projects. Provided guidance on compliance.
- Monitored and optimized system performance, implemented disaster recovery plans, and maintained comprehensive documentation of architectures and configurations.
- Consulted data engineering teams on best practices, stacks, tradeoffs, scalability, deployments on architectures for ETL pipelines using warehouses and data lakes.

**Technologies:** Apache Airflow, Luigi, Flask, Docker, Kubernetes, Terraform, Ansible, Kafka, AWS, PostgreSQL, CockroachDB, ELK Stack, Pandas, PyJanitor, NumPy, scikit-learn, Apache Spark, Scala, PySpark, Snowflake, BigQuery, DBT, Databricks, Vue, React, Neo4J, Tableau, Microsoft PowerBI, Python, Go, Java, Spring Boot, .NET Core, C#, Apache Solr, Lucene, ElasticSearch, Looker, Sentry, DVC, MLflow, Kubeflow, Dagster, Prefect, DBT, OpenLineage, HAPI FHIR.

**Senior Developer**

**July 2016 – July 2018**

**Thirstie, New York, NY**

- Built and scaled a marketplace platform using Tornado, Django, and Celery, with features like currency handling, parallel processing, and optimized concurrency (asyncio, multiprocessing).
- Designed and implemented the platform's data schema, models, and authorization service with JWT, including SSO evaluation.
- Conducted business analysis to prioritize features, align resources, and ensure timely delivery of technical tasks.
- Automated CI/CD pipelines and infrastructure management using Jenkins, Docker, Ansible, and Supervisor.
- Migrated legacy infrastructure, codebases, and schemas, ensuring seamless data transitions with Pewee, MySQL, and yoyo-migrations.
- Integrated third-party services including Braintree Payments, TaxJar, and Twilio to enhance platform functionality.
- Optimized system performance through data type tuning, schema normalization, and Redis enhancements.
- Developed a gRPC-based integration layer and implemented load-time optimizations for scalability and reliability.

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**Technologies:** Tornado, Django, Flask, MySQL, PostgreSQL, gRPC, AWS (EC2, S3, RDS), Digital Ocean, Elasticsearch, Redis, Docker, Celery, RQ, React, Apollo, GraphQL, Jenkins, Ansible, ELK Stack, New Relic.

## **ADDITIONAL EXPERIENCE:**

### **Senior Developer / Architect**

**Art Revolution, New York, NY (Jan 2015 – Jul 2016)**

- Built a Django-based social platform with advanced media processing, messaging, and integrations (OAuth2, UPS, USPS, Braintree).
- Developed AI/ML pipelines for image classification using Theano, Keras, and TensorFlow.
- Performed DevOps tasks including CI/CD pipelines, Docker, Ansible, and AWS infrastructure.

### **Integration Developer / Architect**

**Signetcs, New York, NY (Jan 2014 – Dec 2014)**

- Designed and implemented B2B integration systems using Python, Node.js, and SOAP.
- Built custom job-handling and log analysis tools leveraging Redis, Tornado, and D3.
- Configured system security with Kerberos and OpenSSL.

### **Senior Developer**

**CPX Interactive, New York, NY (Sep 2013 – Dec 2013)**

- Developed RESTful APIs for feed aggregation and integrated social APIs.
- Built scalable backend infrastructure with Django, Tornado, and Redis.

### **Senior Consultant**

**Northpoint Solutions, New York, NY (May 2013 – Aug 2013)**

- Redesigned Rotary International's large-scale community site using Drupal.
- Implemented custom modules, group memberships, internationalization, and Google Maps integration.

### **Developer / Consultant**

**Analog Method, New York, NY (Feb 2013 – May 2013)**

- Refactored Drupal-based sites with custom modules and interactive forms.
- Integrated SOAP-based e-commerce and geolocation functionality.

### **Independent Consultant / Freelancer**

**New York, NY (Feb 2009 – Dec 2014)**

- Developed and maintained websites using WordPress, Drupal, and custom PHP/JavaScript solutions.
- Enhanced donation workflows and membership features for Covenant House (Drupal 6).

### **Java Software Developer**

**Algorithmic Creations, New York, NY (Jan 2001 – Feb 2009)**

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