# Dmitry Roitman

150 West End Avenue, Brooklyn, NY 11235 | Phone: 718 404 6471 | dmitryro@gmail.com

**LinkedIn:** https://www.linkedin.com/in/dmitry-r-4104b56/ | **Portfolio:** 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 or staff-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, SQLAlchemy, Alembic (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)
- **Rust**: Tokio (4 years)
- **JavaScript / TypeScript:** Angular, React/Redux/Next.js, Vue/Nuxt.js, Node.js, Express.js, RXJS, D3.js, Three.js, 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, Microsoft Azure (10 years)
- **CI/CD:** Jenkins, Docker, Kubernetes, Terraform, Pulumi, Ansible, Prometheus, Datadog, New Relic, OpenTelemetry, SaltStack, GitLab (12 years)

### Data Engineering and Messaging:
- **Data Engineering:** Apache Airflow, Luigi, Snowflake, BigQuery, Redshift, dbt, Apache Spark, Cassandra, Parquet, Arrow, Flink (12 years).
- **Messaging:** JCelery, Apache Kafka, AWS Kinesis, RabbitMQ/AMQP, MQTT, WebSocket, Samza, ZeroMQ (10 years)

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

### Databases:
- **RDBMS:** PostgreSQL, MySQL, Cosmos DB, SQL (25 years)
- **NoSQL:** Redis, CouchDB, DynamoDB, Neo4J, Elasticsearch, Memgraph, MongoDB (15 years)

### Integration, Security, Networking and Compliance:
- **Integration:** REST, GraphQL, gRPC, SOAP, FHIR/HL7, JWT, Apollo (15 years)
- **Security:** Kerberos, OpenSSL, RSA, LDAP, OAuth2, Okta, SAML, OpenID (15 years)
- **Networking:** TLS/SSL, TCP, UDP, MQTT, AMQP, HTTP, HTTPS (15 years)
- **Compliance**: SOC2, HIPAA, PCI (10 years)

### Linux System Administration and Virtualization:
- **System Administration:** Shell Scripting, Debian/Ubuntu, RHEL, Bash, AWK, Backups(15 years)
- **Virtualization:** ProxMox, Qemu, VMWare, Virtuozzo, Xen (15 years)

### Data Scraping and VIsualization:
- **Data Scraping:** BeautifulSoup, Scrapy (10 years)
- **Visualizations:** D3.js, Three.js, HighCharts, Tableau, PowerBI (15 years)

### Version Control:
- Git (GitHub, Bitbucket) (15 years), Subversion (10 years)

### Software Architecture and Software Development Lifecycle:
- **SDLC:** TOGAF, Six Sigma, Zachman, Solutions Architecture, Agile (SCRUM/Kanban) (20 years)
- **System Design**: DDD, Event Driven, CQRS, Architecture Patterns, Microservices (15 years)

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| LANGUAGES: | EDUCATION: |
|---|---|
| • English (full fluency) | From: 09/1995.  To: 08/1999. |
| • Russian (full fluency) | UNIVERSITY OF HAIFA,   Haifa, Israel |
| • Hebrew (full fluency) | 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**

- Led the design, development, and documentation of a corporate analytics SaaS platform to monitor and optimize clients' utility consumption (electricity, gas, water), leveraging advanced analytics and actionable insights.
- Architected and built scalable session management, data streaming, and analytics dashboards with Python, PostgreSQL, RabbitMQ, FastAPI, Flask, 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, 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.
- Let the implementation of middleware, conversational messaging and notifications infrastructure in Rust and ZeroMQ for extended platform features.

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

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**Solutions Architect**                                        **July 2018 –  Feb 2021**

**1010data, New York, NY**

- **Architected and implemented enterprise data pipelines using Airflow DAGs, custom operators, and plugins.**
- **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 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 guirance 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.**

<u>**Technologies:**</u>  **Apache Airflow, Luigi, Flask, Docker, Kubernetes, Terraform, Ansible, Kafka, AWS, PostgreSQL, ELK Stack, Pandas, NumPy, scikit-learn, Apache Spark, PySpark, Snowflake, BigQuery, dbt, Vue, React, Neo4J, Tableau,  Microsoft PowerBI, Python, Go, Java.**

**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.**

<u>**Technologies:**</u>  **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.**

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## Additonal 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 J2EE and Hibernate.**
- **Integrated third-party APIs (Axis 1.4) and optimized backend databases (MySQL, Oracle).**