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/ | **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, Crates, Tokio, Rocket, Actix Web** (4 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, JTW, 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

- 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, 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 backend 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, Pydanitc, Polars, Kafka, Debezium.

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Solutions Architect   **July 2018 – Feb 2021**

1010data, New York, NY

- **Architected and implemented ETL pilelines using Airflow DAGs, custom operators, and plug-ins 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 high ly 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 archietctures for ETL pipelinelines using warehouses and datalakes.**

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