

# Artem Roma

*Software Engineer*

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**in** artem-roma

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## Profile

I am a skilled software engineer with 10 years of experience in building product platforms and web applications. Throughout my career, I have successfully delivered products in diverse and multicultural teams.

I have a goal-oriented mindset and value the same in my colleagues. I enjoy deeply engaging with the product, understanding customer needs, and ensuring high-quality support after release.

I am drawn to organizations that prioritize trust and transparency, as I believe they create a positive and collaborative work environment.

## Technical Skills

- Python (Proficient), Go (Previous experience)
- FastAPI, Flask, SQLAlchemy, AsyncIO
- REST, GraphQL
- Docker, Kubernetes, Flux CD
- CircleCI, Jenkins
- PostgreSQL, Redis
- AWS - Lambda, Athena, S3, Glue, Redshift, Aurora, Kinesis, CloudWatch, Route53 etc.
- Terraform
- Graphana

## Experience

2020–2023 **Very Good Security**, *Platform/Services team*, Sr. Software Engineer, Developing a platform for the payment processing and compliance assurance product

○ Achievements

- Built the company billing system
  - designed the architecture for billing related part of the platform
  - designed and implemented custom batch data processing micro-framework (Python)
  - implemented support of 4 iterations of the company billing model
  - implemented a variety of data connectors with PSPs and RevOps platforms.
  - implemented a variety of back-end serviced to facilitate customer facing billing reporting and spending control functionality.
  - designed and implemented a variety of the data processing flows for the internal business analytics purposes.
  - automated a number of various manual billing book-keeping processes for the sales department.
  - automated billing data integrity checks
- Implemented a compliance checker service.
- Participated in the design, implementation, support and extension of a cloud based data warehouse solution.

○ Responsibilities

- Participate in the quarterly/sprint planning, retros, product strategy reviews, innovation/hacker days
- Conduct company wide technical and product demos on the weekly basis
- Organize and conducting communication with stakeholders and other teams
- Conduct gate keeping code and documentation review
- Create (documented) architecture design proposals - system/API/data schema design; SLA/SLO outline
- Manage full life cycle of the delivery process
  - set up VCS repositories - create CI/CD configuration, documentation, local dev environment
  - add implementation and functional/integration test coverage
  - set GitOps automation with resources, quotas and roll-out strategies according to the defined SLA/SLO
  - set periodical smoke tests and monitoring/alerting
  - implement the user roll-out strategy
  - create the customer facing documentation
  - set up on-call process for the released products
  - participate in the CS L2/L3 escalation rotations

○ Technology stack and 3rd party

- AWS - S3, Athena, Glue, RDS, Aurora, Redshift, Kinesis (limited), EKS, Athena
- Python - Flask, FastAPI, Boto3, HTTPX, Ariadne, Pytest, Poetry
- Docker, docker-compose, Kubernetes, Helm, FluxCD
- PostgreSQL, Redis, Presto
- Vector, Kafka (limited)
- CircleCI
- Protobuf
- OpenTelemetry, Prometheus, Graphana
- Shell scripting
- Terraform
- Stripe, RevOps, HealthCheck, PagerDuty, Rollbar, etc.

2017–2019 **DataRobot**, *Platform squad*, Software Engineer, Focused development of the platform for the automated ML model training product

- Achievements
  - Implemented the platform extension to support the Docker worker based environment
  - Optimized the in-house functional testing framework - reduced the time of the daily runs.
  - Automated migration of the ML models training data sets from a SQL based to time series data store.
  - Focused participation in design and implementation of the next version of the platform
  - Extended the next version of the platform to support the clean up actions for cloud based environments.
- Responsibilities
  - Participate in quarterly/sprint planning, retros, product review sessions
  - Lead/contribute to "project cards" - deliverable product functionalities
    - Create technical proposals
    - Create detailed delivery planning
    - Ensure progress tracking
  - Add technical implementation with internal documentation and integrate with the in-house functional testing framework
  - Integrate with in-house CI/CD framework
  - Perform gate keeping code and documentation review
- Technology stack and 3rd party
  - AWS - EC2, EKS
  - GCP - GKE
  - Docker, docker-compose, Kubernetes, helm
  - Python - stdlib, Pytest, Boto3
  - PostgreSQL, Redis
  - Logstash, Elasticsearch, Kibana
  - Linux packaging
  - Shell scripting

2013–2017 **Mirantis**, *Fuel RnD team*, Software Engineer, Build a platform for OpenStack cluster management on customer infrastructure

- Achievements
  - Integrated a variety of test drivers (e.g. Pytest) for the OpenStack cluster testing component
  - Implemented custom IP address management extension for a network manager component of the Fuel framework
  - Implemented a Kubernetes operator for managing custom IP address assignment
  - Implemented the connectivity check component for the Kubernetes installation framework
- Responsibilities
  - Participate in quarterly/sprint planning, retros, product review sessions
  - Perform gate keeping code and documentation review ( 30% of the time)
  - Follow the OpenStack community contribution flow - submit design proposals, provide gate keeping review, finalize the community feedback.
  - Integrate with OpenStack project CI/CD
- Technology stack and 3rd party
  - Python - stdlib, Pytest, nosetest, network programming
  - OpenStack
  - Docker, docker-compose, Kubernetes, helm
  - Project Calico
  - Go - network programming
  - Shell scripting

2013 **Speedflow**, *Communications team*, Software Engineer, Build platform for VoIP class 4 softswitch product  
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## Education

2012–2013 **Specialist degree in Computer Engineering**, *Kharkiv National University of Radio and Electronics*

2008–2012 **BSc in Computer Engineering**, *Kharkiv National University of Radio and Electronics*

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## Languages

English	Upper-intermediate
Ukrainian	Native

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## Interests

- Product delivery
- Distributed systems
- Data intensive systems and data platforms
- Observability
- Developer tooling
- Product management