

Kirill

Architect/Team-lead Back-end Developer / Team Lead

SUMMARY

- Back-end developer with 7 years of experience specializing in Python frameworks including Django, FastAPI, and Reflex, delivering scalable web applications and AI-driven SaaS platforms.
- Proficient in designing and maintaining complex backend architectures using PostgreSQL (pgvector), Redis, Kafka, and AWS cloud services (Lambda, ECS, S3, Cognito), ensuring high performance and reliability.
- Led development of AI-powered lead intelligence and IoT-integrated fleet electrification systems, implementing advanced workflows with OpenAI API, GraphQL, and asynchronous task management.
- Skilled in full SDLC: architecture design, database schema optimization, API development, testing (pytest, Selenium), CI/CD, and cloud infrastructure management with Terraform and Docker.
- Holds Bachelor's and Master's degrees in Computer Science, with strong expertise in software engineering principles, multi-tenant SaaS systems, and integration of third-party APIs for enterprise solutions.

TECHNICAL SKILLS

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| Main Technical Skills | Python (7 yr.), Django REST framework (5 yr.), FastAPI (5 yr.), PostgreSQL (5 yr.), AWS (5 yr.) |
| Programming Languages | Python (7 yr.), TypeScript (1 yr.) |
| Python Libraries and Tools | AsyncIO, pytest (1 yr.), Scrapy |
| AI & Machine Learning | DialogFlow, OpenAI (1 yr.) |
| Python Frameworks | Django REST framework (5 yr.), FastAPI (5 yr.), Flask |
| Mobile Frameworks and Libraries | KeychainSwift |
| JavaScript Frameworks | Remix (1 yr.) |
| Security | Auth0 (1 yr.) |
| Databases & Management Systems / ORM | Airtable (1 yr.), AWS DynamoDB (2 yr.), InfluxDB (2 yr.), MariaDB, MongoDB (2 yr.), MySQL, PostgreSQL (5 yr.), Redis (5 yr.), SQLite, Supabase (1 yr.) |
| Cloud Platforms, Services & Computing | AWS (5 yr.), DigitalOcean, GCP, Heroku (1 yr.), Zapier |
| Amazon Web Services | AWS AppSync (2 yr.), AWS CloudFront (2 yr.), AWS Cognito (3 yr.), AWS DynamoDB (2 yr.), AWS ECR (1 yr.), AWS ECS (1 yr.), AWS Fargate (1 yr.), AWS Kinesis (2 yr.), AWS Lambda |



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| | (4 yr.), AWS Route 53, AWS S3 (2 yr.), AWS SES (3 yr.), AWS SQS (3 yr.), AWS Timestream (Amazon Time Series Database), AWS WorkSpaces |
| Azure Cloud Services | Azure Logic Apps (1 yr.) |
| Deployment, CI/CD & Administration | Active Directory |
| SDK / API and Integrations | API, Api Gateway (2 yr.), FastAPI (5 yr.), GraphQL (2 yr.), Keycloak (2 yr.), Twilio (1 yr.), Windows API (1 yr.) |
| Message/Queue/Task Brokers | Celery, Kafka (3 yr.) |
| Collaboration, Task & Issue Tracking | Cron (1 yr.) |
| Virtualization, Containers and Orchestration | Docker (2 yr.), Terraform (2 yr.) |
| Version Control | Git |
| Mail / Network Protocols / Data transfer | IP Stack (1 yr.) |
| Web/App Servers, Middleware | Nginx |
| QA, Test Automation, Security | pytest (1 yr.), Selenium (1 yr.) |
| Methodologies, Paradigms and Patterns | REST |
| Other Technical Skills | AD, Alembic and yoyo migrations (1 yr.), Mastra (1 yr.), Stimulus-reflex (1 yr.) |

WORK EXPERIENCE

Team Lead/Back-end developer (Lead Intelligence Platform)

Duration: 1 year

Summary:

- Created a platform to transform B2B sales teams' lead qualification by replacing fragmented manual research with a unified, AI-driven intelligence engine that keeps humans in control at every decision point
- The platform leverages AI workflows and multi-tenant SaaS architecture to automate and enhance lead research and sales insights

Responsibilities:

- Designed and implemented an AI-powered lead intelligence platform converting minimal contact data into structured lead and company research using LLMs and RAG pipelines.
- Architected and maintained a scalable multi-tenant SaaS system including backend services, AI workflows, and integrations.



- Built backend APIs and data pipelines with PostgreSQL (pgvector) and Redis for automated research generation and CRM/webhook integrations.
- Developed AI workflows generating sales insights, meeting agendas, and tailored value propositions for B2B teams.
- Integrated a multilingual AI voice agent (Vapi) for lead qualification, meeting scheduling, and sales playbook generation.
- Implemented authentication and RBAC with Auth0, including organization and permission management.
- Managed cloud infrastructure, CI/CD pipelines, and production deployments.

Technologies: Python, Reflex, Restack, OpenAI API, TypeScript, Remix, Mastra, Vapi, Auth0, PostgreSQL (pgvector), Redis, Cron

Back-end developer (Airtable Automations)

Duration: 1 year

Summary:

- Developed an automated integration between Salesforce, RegAdmin, and Airtable to centralize lead data, reduce manual input, and improve data consistency
- The project aimed to streamline lead management and communication workflows

Responsibilities:

- Developed scripts to read, validate, and insert data into Airtable.
- Implemented email integration for automated communication workflows.
- Implemented SMS integration for notifications and lead engagement.
- Maintained and enhanced the application in response to new requirements and third-party API changes.
- Deployed and managed the application in the Heroku cloud environment.

Technologies: Python, RegAdmin API, GmailAPI, Textmagic API, Airtable API, Heroku, Heroku API

Back-end developer - Wiehte CGI

Duration: 1 year

Summary:

- Engineered an end-to-end solution for content creators automating imaging, care tag analysis, and metadata generation
- The platform included applications for teams, AI integration, managerial oversight, and API connectivity to streamline processes and boost efficiency and collaboration

Responsibilities:

- Designed and implemented the overall project architecture ensuring scalability and maintainability.
- Created and managed the database including schema design, optimization, and migrations.
- Developed backend API solutions to support core business functionality.
- Deployed and maintained the project infrastructure ensuring stability and performance.
- Diagnosed and resolved integration issues between system components and external services.



Technologies: AWS ECS, AWS Fargate, AWS ECR, AWS SQS, AWS Lambda, AWS SES, Supabase, Python FastAPI, Python yoyo-migrations, Docker, PostgreSQL

Back-end developer (Content Sharing Platform)

Duration: 1 year

Summary:

- Developed a B2B service that allows businesses to generate links with shareable content using their API and offers for potential customers
- Partners can build content of the link and offers from scratch, facilitating digital content management and sharing

Responsibilities:

- Developed a B2B service for managing and sharing digital content.
- Wrote unit tests with pytest and end-to-end tests using Selenium to ensure product stability.
- Prepared detailed project specifications and technical documentation.
- Designed architecture and workflow diagrams to visualize key system components and processes.

Technologies: FastAPI, Pytest, DynamoDB, Selenium, AWS DynamoDB, AWS SES, AWS S3, AWS Apigateway, AWS Cognito, AWS Cloudfront, AWS Lambda

Back-end developer (Smart Vehicle management)

Duration: 2 years

Summary:

- Provided full-service fleet electrification solutions offering access to a complete ecosystem including vehicles, PV, grids, and batteries
- The system supports various TCUs, gathering data to provide customers with real-time tracking and a comprehensive view of the ecosystem

Responsibilities:

- Maintained the REST API back-end and GraphQL back-end.
- Created services integrated with IoT devices.
- Refactored existing Python services to improve performance and reliability.
- Researched and implemented official APIs from vehicle manufacturers (e.g., Tesla API).
- Designed and selected architectural approaches for the system.

Technologies: Python, FastAPI, InfluxDB, PostgreSQL, Kafka, GraphQL, Keycloak, AWS (AppSync, Timestream, Kinesis, Lambda, SQS), Terraform

Back-end developer (Retention 360)

Duration: 1 year

Summary: Developed a B2B service connected to dealership APIs with two-sided integration allowing auto groups and dealerships to organize jobs, manage employees and clients with success badges, and analyze dealership progress through various graphs and statistics.



Responsibilities:

- Designed and implemented the backend architecture of the service.
- Developed and maintained database migrations to ensure data consistency and scalability.
- Built background services for notifications, calculations, and other asynchronous tasks.
- Prepared detailed project specifications and technical documentation.

Technologies: FastAPI, AWS Cognito, AWS SES, AWS Lambda, PostgreSQL, MongoDB, Redis, Kafka, FCM, dependency-injector

EDUCATION

- **Kharkiv National University of Radioelectronics**
Bachelor of Computer Science, Master of Computer Science

