

Andrey Polishchuk

Python / Backend Developer

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GitHub: github.com/S4NDW1CH · GitLab: gitlab.com/S4NDW1CH_

Based in Novoye Devyatino, Russia · Open to relocation · Remote / Hybrid

WORK EXPERIENCE

ATIMO

Jul 2026 — present

Backend Developer

- Writing production code for server-side services
- Developing and maintaining the backend of an AI agent product
- Implementing and supporting CI/CD processes within the team
- Root-cause analysis of bugs to prevent recurrence

Dyn-it

Mar 2023 — Jun 2026

Fullstack Developer — IT / System Integration / Enterprise Software

Document Processing Automation

n8n · Python (FastAPI, SQLAlchemy, Pydantic, Dynaconf) · PostgreSQL · Docker · Microsoft Graph API · LangChain · LLM (text + vision) · Git | Agile, TDD

Built an end-to-end pipeline for processing incoming documents (invoices, bank transactions, ~20–30/month) on n8n with LLM integration, plus an internal web dashboard for reconciliation. Reduced processing time from tens of minutes to seconds.

- Designed an AI document classifier (text + vision hybrid) with metadata extraction accuracy >95%
- Built an event-driven microservice pipeline with REST/HTTP integrations to Microsoft Outlook and SharePoint API, routed by MIME type
- Implemented idempotent metadata extraction and transactional writes to PostgreSQL (SHA3-256, skip-on-conflict) — fully eliminating duplicates
- Built reconciliation dashboard: FastAPI + SQLAlchemy/SQLAlchemy + Pydantic backend, plain HTML/CSS/JS + jQuery frontend, packaged in Docker
- Standardized error handling and structured logging with alerting

Corrosion Protection System — Refactoring & Development

SAP BTP (Cloud Foundry) · CAP (Java) · UI5 Freestyle · Fiori · HANA Cloud · XSUAA · OData V4 · REST · Azure DevOps · Git | Scrum, Agile, TDD

Refactored and extended a corrosion protection monitoring system for gas pipelines on SAP BTP. Legacy XSJS code migrated to Java CAP. After two rounds of performance optimization, chart load time for 24 months of data dropped from 35:00 to 2:25 (~1300% improvement).

- Migrated backend from XSJS to Java CAP: actions/functions/handlers, CDS entities, OData V4 and REST; moved heavy computations from single-threaded UI to parallelized backend
- Built UI5 components with routing, state, i18n, AppRouter; integrated into Build Work Zone (Launchpad)
- Implemented caching system (4 endpoints, invalidation + background refresh via Job Scheduler) — e.g. simple figures: 27.6 s → 0.5 s (+5420%)
- Optimized HANA Cloud stored procedures, SQL queries and indexes — individual queries from 8 s to 0.1 s
- Set up observability with Grafana + Prometheus + Loki; autoscaling (scale-up >80% memory, scale-down <30%); Azure CI/CD optimization
- E2E and integration tests (WebdriverIO, WDIO, QUnit) in TDD style; security audit and pentest

Safety Data Sheet (SDS) Parsing Application

SAP BTP (Cloud Foundry + Kyma/Kubernetes) · CAP (TypeScript) · Express · WebSocket · LangChain · Ollama · HANA Cloud · REST · GitHub Actions · Git | Scrum, Agile, TDD

Built a system for processing SDS documents and answering user queries via RAG. Migrated a Python prototype to CAP (TypeScript). Internal library of ~150 documents processed end-to-end in minutes.

- Designed microservice backend architecture, CDS data models, and processing logic following SOLID
- Implemented RAG system: LangChain + vector database for semantic search and document analysis
- Extended CAP Express server with custom middleware and WebSocket endpoints for streaming LLM responses to frontend
- Built PDF processing pipeline with LLM ingestion, prompt optimization, and model quality analysis
- Integrated self-hosted Ollama with SAP BTP via Cloud Connector; CI/CD on GitHub Actions; deployed to Cloud Foundry and Kyma
- Fiori Elements UI with custom extensions; unit and integration tests in TDD style, mandatory Code Review

Anonymous Reporting System (Whistleblowing)

SAP BTP (Cloud Foundry) · CAP (NodeJS) · VueJS · SAPUI5 · Fiori Elements · HANA Cloud · SAP Conversational AI · Event Mesh · XSUAA · IAS · Jest · WebdriverIO · Git | Scrum, Agile, TDD

Developed and maintained an anonymous reporting platform for private and public sector entities. Multiple entry points: VueJS interface for reporters with trained SAP Conversational AI, Fiori Elements for compliance managers. Automated subaccount rollout reduced setup from ~2 hours of manual steps to ~5 minutes (one command).

- CAP (NodeJS) development following SOLID and OOP: CDS views/annotations, service definitions, handlers; Fiori apps (Analytical List Page), UI5 extensions and freestyle; REST API
- Database-level logic: HDB stored procedures, HANA functions, optimized SQL queries
- Built VueJS chat interface with integrated trained SAP Conversational AI
- Microservice integration via Event Mesh, including automated client creation via Event Mesh API
- Automated testing (unit, integration, E2E) in Jest and WebdriverIO in TDD style; team workshops
- Configured IAS, SAML trust, Credential Store, Alert Notification, CI/CD and Cloud Transport Management; automated subaccount rollout via SAP Automation Pilot (CF CLI, BTP CLI, Bash, SQL, Python)

Sysadmin & Infrastructure (cross-cutting, across all projects)

- Linux administration (Debian, Arch, RHEL-like), Bash scripting for automation
- Containerization and orchestration: Docker, Kubernetes, SAP Kyma (deployments, ingress, secrets/configmaps)
- Database administration: PostgreSQL, MySQL/MariaDB, SAP HANA Cloud — backups, migrations, query tuning
- Observability: Grafana + Prometheus + Loki — metrics, logs, app/DB/infra dashboards, alerting
- IAM: Azure Entra ID, Active Directory, XSUAA; self-hosted: Ollama, Open WebUI, n8n, pgAdmin
- CI/CD: Azure DevOps, GitHub Actions, Jenkins, CircleCI, GitLab CI/CD; Git workflow, Pull Request review

EDUCATION

Peter the Great St. Petersburg Polytechnic University M.Sc. Computer Science — Software Engineering	2022
Peter the Great St. Petersburg Polytechnic University B.Sc. Computer Science — Software Engineering	2018
ITMO University, Saint Petersburg Technical College — Computer Science	2016

SKILLS

Languages	Russian — Native · English — C1 Advanced
Backend	Python · FastAPI · SQLAlchemy · SQLModel · Pydantic · Django · Flask · Celery · gRPC
AI / LLM	LangChain · RAG · Ollama · LLM integration (text + vision) · n8n · prompt engineering
SAP BTP	CAP (Java, TypeScript, NodeJS) · UI5 · Fiori · HANA Cloud · OData V4 · XSUAA · Event Mesh
Databases	PostgreSQL · MySQL/MariaDB · Redis · SAP HANA Cloud
DevOps	Docker · Kubernetes · Azure DevOps · GitHub Actions · Jenkins · CircleCI · GitLab CI/CD
Infra / OS	Linux (Debian, Arch, RHEL) · Bash · Grafana · Prometheus · Loki · Azure Entra ID
Testing	Pytest · Jest · WebdriverIO · WDIO · QUnit · TDD
Other	Git · REST API · Microservices · Agile / Scrum · JIRA · Confluence · Postman