**Senior Software Engineer – Dmitry K.**

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| **Education:**  Master Degree – Information Systems and Technologies  **Languages:**  English – B2  **Domains:**  FinTech  Generative AI  Sales & Marketing | I am a Senior Software Engineer with over 7 years of experience in backend and full-stack development. I specialize in building AI-powered systems, particularly those leveraging LLMs for document processing, RAG pipelines, and multi-agent orchestration. My technical toolkit includes Python, FastAPI, OpenAI APIs, and PostgreSQL, among others. I have strong experience in integrating advanced NLP models such as Whisper and DeepFace, and have contributed to projects spanning education, finance, and enterprise productivity. I’m also experienced in mentoring teams and translating business needs into robust GenAI-driven applications. |

**Overview**

**Hard Skills**

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| Backend  Python, Django/Django REST, FastAPI, Flask, Celery, SQLAlchemy, BeautifulSoup, WebSockets, AioHTTP, OpenAI API, LlamaIndex, Apache Tika, Whisper, DeepFace, MCP, Multi-agent systems |
| Frontend Tech  JavaScript, TypeScript, React.js, Next.js, Redux, MobX, AntD, Material UI, SCSS/CSS, HTML, AG Grid |
| Databases & Other  PostgreSQL, pgvector, MySQL, Redis, MongoDB, ElasticSearch, LogStash, Kibana |
| Architecture  MVC, Clean Architecture, Microservices, SOLID, DRY |
| DevOps  Docker, Kubernetes, GitLab CI/CD, AWS Cloud, Azure Cloud, AWS Serverless, AWS Lambda |
| Communication APIs  RedSMS API, Twilio API |
| VCS  Git, GitLab, Bitbucket, GitHub |

**Projects & Experience**

**Project 1**

**Overview**

**Multi-Agent Project Monitoring System**

**Role**

Senior Software Engineer

**Duration**

Nov 2024 - Present

**Responsibilities**

* Developed backend features for multi-agent task validation and contextual search.
* Integrated OpenAI APIs and SmolAgents.
* Created RAG components with LlamaIndex and pgvector.
* Used Apache Tika for document parsing.
* Collaborated on DB modeling, code reviews, and technical planning.

**Tech Stack:**

Python, FastAPI, Celery, OpenAI, SmolAgents, MCP, LlamaIndex, Apache Tika, PostgreSQL, pgvector, k3s

**Project 2**

**Overview**

**Tool for analyzing lesson videos in schools—detecting session timing,**

**Role**

Senior Software Engineer

**Duration**

Nov 2023 – Nov 2024

**Responsibilities:**

* DB design, video processing with Celery tasks.
* Speech-to-text with Whisper and emotion detection with DeepFace.
* RTSP stream handling, documentation, and process planning.

**Tech Stack:**

Python, FastAPI, Celery, LLM, Whisper, DeepFace, vLLM, RTSP

**Project 3**

**Overview**

**Cloud platform for financial advisors using ML to process real-time content feeds.**

**Role**

Senior Backend Developer

**Responsibilities:**

* Implemented recommender systems, REST APIs, business logic.
* Led subsystem design and architecture planning.
* Mentored team, handled documentation and monitoring setup.

**Tech Stack:**

Python, Django REST, FastAPI, SQLAlchemy, PostgreSQL, Celery, Redis, BeautifulSoup4, Next.js, Docker, Azure, ELK

**Project 4**

**Overview**

**App for teachers to scan, analyze, and auto-grade handwritten student work**

**Role**

Senior Software Developer

**Duration**

Jun 2019 - Ocr 2020

**Responsibilities:**

* Direct customer communication, architecture planning.
* LaTeX-based PDF blank generation.
* SMS/voice notifications via RedSMS and Twilio.

**Tech Stack:**

Python, Django REST, Celery, JavaScript, React, Material UI, PostgreSQL, FastAPI, AWS, Docker, Kubernetes

**Project 5**

**Overview**

**Dashboard for financial institutions to visualize and interact with massive data streams.**

**Role**

Senior Developer

**Duration**

Feb 2018– May 2019

**Responsibilities:**

* Integrated ML model with REST/WebSockets.
* Built dataset prep and real-time monitoring interfaces.
* Documented and maintained backend/frontend collaboration.

**Tech Stack:**

Python, Django REST, Celery, JavaScript, React.js, PostgreSQL, Redis, MongoDB, WebSockets, AioHTTP

**Project 6**

**Overview**

**Slack-Based Report Generation App**

**Role:**

Software Developer

**Duration:**

Ocr 2017 – Jan 2018

**Responsibilities:**

* Integrated Slack Enterprise APIs and developed bot workflows.
* Created endpoints, modals, and event handling services.

**Tech Stack:**

Python, Flask, Slack API, Celery, RabbitMQ, PostgreSQL, Jinja2

**Skill Overview**

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| Category | Tool | YoE (Years of Experience) |
| Programming | Python | 7 |
| Web Frameworks | Django, FastAPI, Flask | 7,4,3 |
| Asznchronous Tasks | Celery | 6 |
| Frontend | JavaScript, React, TypeScript, Redux | 5+ |
| Databases | PostgreSQL, MySQL,MongoDB | 5+ |
| AI/ML | OpenAI, LLM, Whisper, DeepFace | 2+ |
| DevOps | Docker, Kubernetes, AWS, Azure | 5+ |
| Messaging | RabbitMQ, Kafka | 5+ |