

# Alexey Zaytsev

Full-time learner. [Linux, Biology, Electronics] → AI.

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github.com/xl0

## // EXPERIENCE

### AI/ML Engineer (Contract) July 2024 – Present

Various Clients  
Agentic LLM systems, diffusion models, speech-to-text pipelines. Full-stack AI application development.

### Machine Learning Engineer Nov 2023 – July 2024

io.net  
Generative AI and MLOps.

### AI/ML Engineer (Contract) Nov 2022 – Nov 2023

Various Clients  
Contract work in machine learning and software development.

### Career Transition / Independent Study May 2020 – Nov 2022

Self-directed  
Deep learning and AI study. Open-source contributions. Side projects in ML/AI.

### Electronic Engineer Dec 2018 – May 2020

Okra Solar — Canberra / Phnom Penh / Shenzhen  
Smart solar grid tech: fully connected grid hub (Solar → Battery → regulated DC loads and high voltage sharing).  
Electronics, schematics, PCB design. DC-DC converters and analog monitoring circuits.

### Electronics and Prototyping Engineer Sept 2016 – Dec 2018

Self-employed — Shenzhen, China  
Digital, analog, and power electronics. Rapid prototyping and small-scale production manufacturing.

## // RELEVANT SKILLS

**AI/ML**  
Python, PyTorch, JAX, CUDA, Transformers, Diffusion Models, Computer Vision, LLM Agents, vLLM, Hugging Face, LangChain, RAG, Fine-tuning, LoRA, Stable Diffusion, CLIP, Embeddings, Vector Databases, Weights & Biases, FastAI

**Full-Stack**  
SvelteKit, TypeScript, FastAPI, PostgreSQL, Tailwind CSS, SQLAlchemy, drizzle-orm, OAuth, Pydantic

**DevOps**  
Docker, Linux, AWS, GitHub Actions, Supabase, Vercel, CloudFlare, S3

## // EDUCATION

**Université Denis Diderot**  
2013 – 2015  
M.Sc. Systems and Synthetic Biology

**LETI University**  
2003 – 2009  
Specialist, Computer Security

## // LANGUAGES

English	Professional
Russian	Native
Ukrainian	Elementary

## **CTO & Co-founder**

Sept 2015 – Sept 2016

Koi.science — Paris / Shenzhen

EdTech startup providing affordable laboratory equipment and teaching materials for molecular biology education in schools. Developed open-source spectrophotometer hardware, electronics, mechanical enclosures, and embedded software.

## **Research Intern**

May 2015 – Sept 2015

Centre de Recherches Interdisciplinaires (CRI Paris)

Development of a low-cost, open-source spectrophotometer.

## **Research Intern**

May 2014 – Jan 2015

Institut Pasteur — Paris

S. aureus, phages, CRISPR systems. Data analysis in BioPython.

## **Research Intern**

Jan 2014 – April 2014

Institut Curie — Paris

Microfluidics, micropatterning, exposing mammalian cells to electric fields.

## **Sr. Software Engineer**

June 2011 – July 2012

Nexenta Systems

Device drivers, kernel work for illumos (OpenSolaris fork).

## **Engineer-Programmer**

Jan 2005 – Jan 2010

AltEII / Protei Ltd

Linux kernel programming and maintenance on MIPS64, ARM and x86.