Kristian T Krastev

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EXPERIENCE

Founding engineer — 2025
Objective labs — *remote*
Back-end development, Blockchain indexing, Data engineering, Process automation

Freelancer — 2024
Cinetronic — *Varna, BG*
Software and web development, Video production, Film events, Digital marketing

Software architect — 2021 - 2023
Identrics — *Sofia, BG*
Architecture of NLP & LLM inference APIs, Computer vision for document processing

Machine learning engineer — 2018 - 2021
Identrics / A Data Pro — *hybrid - Sofia, BG*
End-to-end framework to train, deploy and monitor Natural language processing models

Software engineer — 2016 - 2018
Broadcom (prev. ASIC Depot) — *Varna, BG*
VLSI Design verification and SDK development for VLAN/VXLAN tunneling APIs

Research intern — 2016
University of Bristol - Department of Computer Science — *Bristol, UK*
Computational neuroscience and Information theory research and experimentation

Summer intern — 2015
ZMDI (prev. IDT, now Renesas Design) — *Varna, BG*
Microcontroller SDK: analogue to digital protocol conversion, buffering and transmission over USB

QUALIFICATIONS

Sofia University — 2019 - 2020
MSc Probability theory, Statistics and Actuarial studies - intermitted

Deep learn Warsaw — 2019
Summer school lectures and workshops by world-leading ML & AI researches

University of Bristol — 2012 - 2016
BSc Computer Science with Second class honours (First division)
BSc Thesis „Calculating Mutual information in metric spaces" awarded Distinction (85/100)

Lycée IV „Frederic Joliot-Curie" de Varna — 2007 - 2012
Diploma of Secondary education - GPA 5.73/6.0

Cambridge certificate of advanced english (CAE) — 2011
Council of Europe language competence level C2

Diplôme d'études en langue française (DELF) — 2011
Council of Europe language competence level B2

TECHNICAL SKILLS

- **Programming:** Python, C/C++, TypeScript, Java, Rust, Haskell
- **Computation:** PyTorch, TensorFlow, Numpy, SciKit-learn, MATLAB, R
- **ML:** Deep learning, Regression, Classification, Bayesian models, NLP, Computer vision
- **Data:** Pandas, PostgreSQL, MongoDB, Elastic, DBT, GrapghQL, GraphDB, ORMs (Drizzle/Prisma)
- **Backend:** WSGI & ASGI REST APIs (Flask/FastAPI), RPCs, Gunicorn, Nginx, Kafka, Gradio, Node
- **Ops:** Git, Docker, Jenkins, Airflow, Data version control (DVC/Git LFS)

INTERESTS

- **Graphics:** Raytracing (In-one-weekend series/pbrt), Denoising(OIDN/U-nets), NERFs, Mitsuba
- **Art & Design:** Video production (Resolve/Premiere), Architecture & 3D modeling (Maya/Blender)
- **AI:** Vector databases, Agents, MCPs, Reinforcement learning, Bayesian hyperparameter tuning
- **Systems:** Data warehousing, Experiment tracking, Distributed computing, Infrastructure as code