

# Kristian T Krastev

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## EXPERIENCE

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<b>Founding engineer</b> <i>Objective labs</i> Back-end development, Blockchain indexing, Data engineering, Process automation	<b>2025</b> <i>remote</i>
<b>Freelancer</b> <i>Cinetronic</i> Software and web development, Video production, Film events, Digital marketing	<b>2024</b> <i>Varna, BG</i>
<b>Software architect</b> <i>Identrics</i> Architecture of NLP & LLM inference APIs, Computer vision for document processing	<b>2021 - 2023</b> <i>Sofia, BG</i>
<b>Machine learning engineer</b> <i>Identrics / A Data Pro</i> End-to-end framework to train, deploy and monitor Natural language processing models	<b>2018 - 2021</b> <i>hybrid - Sofia, BG</i>
<b>Software engineer</b> <i>Broadcom (prev. ASIC Depot)</i> VLSI Design verification and SDK development for VLAN/VXLAN tunneling APIs	<b>2016 - 2018</b> <i>Varna, BG</i>
<b>Research intern</b> <i>University of Bristol - Department of Computer Science</i> Computational neuroscience and Information theory research and experimentation	<b>2016</b> <i>Bristol, UK</i>
<b>Summer intern</b> <i>ZMDI (prev. IDT, now Renesas Design)</i> Microcontroller SDK: analogue to digital protocol conversion, buffering and transmission over USB	<b>2015</b> <i>Varna, BG</i>

## QUALIFICATIONS

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<b>Sofia University</b> <i>MSc Probability theory, Statistics and Actuarial studies - intermitted</i>	<b>2019 - 2020</b>
<b>Deep learn Warsaw</b> <i>Summer school lectures and workshops by world-leading ML &amp; AI researches</i>	<b>2019</b>
<b>University of Bristol</b> <i>BSc Computer Science with Second class honours (First division)</i> <i>BSc Thesis „Calculating Mutual information in metric spaces“ awarded Distinction (85/100)</i>	<b>2012 - 2016</b>
<b>Lycée IV „Frederic Joliot-Curie“ de Varna</b> <i>Diploma of Secondary education - GPA 5.73/6.0</i>	<b>2007 - 2012</b>
<b>Cambridge certificate of advanced english (CAE)</b> <i>Council of Europe language competence level C2</i>	<b>2011</b>
<b>Diplôme d'études en langue française (DELF)</b> <i>Council of Europe language competence level B2</i>	<b>2011</b>

## TECHNICAL SKILLS

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- **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

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- **Graphics:** Raytracing (In-one-weekend series/pbrrt), 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