

# Kristian T Krastev

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## EXPERIENCE

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

## QUALIFICATIONS

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

## 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, GraphQL, GraphDB
- **Backend:** WSGI/ASGI REST APIs (Flask/FastAPI), RPCs, Gunicorn, Nginx, Kafka, Gradio
- **Ops:** Git, Docker, Jenkins, Airflow, Data version control (DVC/ Git LFS)

## INTERESTS

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- **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
- **Systems:** Data warehousing, Experiment tracking, Distributed computing, Infrastructure as code