

# Kristian T Krastev

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## Experience

2024 -	CINETRONIC llc - Varna, Bulgaria <i><b>Self-employed:</b> Software &amp; Web development, Video filming &amp; post-production, 3D modelling</i>
2021 - 2023	IDENTRICS - Sofia, Bulgaria <i><b>Software Architect:</b> Microservices architecture for NLP/LLMs and Computer Vision applications</i>
2018 - 2021	IDENTRICS - Hybrid / Sofia, Bulgaria <i><b>Machine Learning Software Engineer:</b> NLP models training and inference service integration</i>
2016 - 2018	BROADCOM (prev.: ASIC Depot) - Varna, Bulgaria <i><b>R&amp;D Software Engineer:</b> VLSI Design verification and embedded SDK development</i>
2016	UNIVERSITY OF BRISTOL - Department of Computer Science - Bristol, UK <i><b>Summer Intern:</b> Computational Neuroscience and Information-theoretic research</i>
2015	ZMDI/IDT (now: Renesas Design Bulgaria) - Varna, Bulgaria <i><b>Summer Intern:</b> Embedded firmware development</i>

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## Education

2019 - 2020	SOFIA UNIVERSITY - MSc Probability and Statistics (Faculty of Mathematics & Informatics) <i>Intermitted</i>
2012 - 2016	UNIVERSITY OF BRISTOL - BSc Computer Science <i>Bachelor of Science with Second Class Honours (First Division)</i> <i>Key subjects:</i> <ul style="list-style-type: none"><li>• Machine Learning</li><li>• Computational Neuroscience</li><li>• Signals, Processes &amp; Systems</li><li>• Data Structures &amp; Algorithms</li><li>• Theory of Computation</li><li>• Computer Vision</li><li>• Computer Graphics</li><li>• Character &amp; Set Design</li><li>• Computer Architecture</li><li>• Concurrency</li></ul>
2007 - 2012	LYCÉE IV „Frederic Joliot-Curie“ - Secondary education - Varna, Bulgaria <i>Diploma of Secondary Education - Excellent 5.73 / 6.00</i>

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## Languages

2011	Cambridge Certificate of Advanced English (CAE) - Grade A <i>Equivalent to Council of Europe Language Competence Level C2</i>
2011	Diplôme d'études en langue française (DELFI) - Niveau B2 <i>Equivalent to Council of Europe Language Competence Level B2</i>

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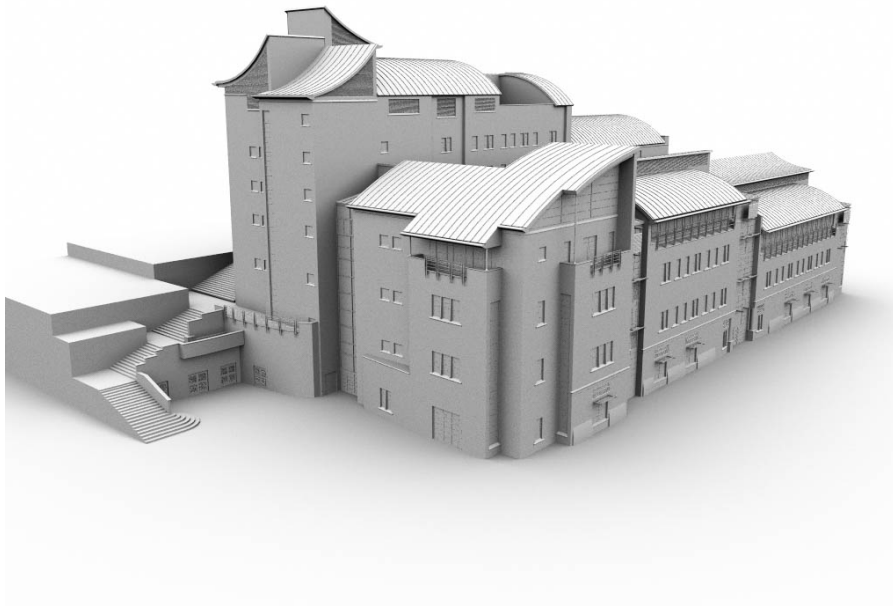
## Skills & knowledge

- **PROGRAMMING:** Python, C/C++, Rust, Java, Haskell, Perl, Verilog/SystemVerilog, TCL, Concurrent xC
- **COMPUTATION:** Pytorch/Transformers, Tensorflow/Keras, Scikit-learn, Gensim, Spacy, Numpy, R, MATLAB
- **MACHINE LEARNING:** LLMs, RNNs/LSTMs, CNNs, W2V, SVMs, Regressions, Zero-shot, Trees, XGBoost, LDA
- **APIs & SYSTEMS:** FastAPI/W(A)SGI, Pyro5/GRPC, Gunicorn/Uvicorn, Kafka, OpenVino, ONNX, GGML
- **DEVOPS & CI/CD:** Docker, Gitlab Pipelines, DVC/LFS, Airflow, Elastic, GraphDB, Jenkins, GCloud Run/Vertex
- **WEB DEV:** JavaScript/TypeScript, PHP, Postgre/MySQL, LAMP stack, modular MVC, HTML, CSS, WordPress
- **MEDIA & DESIGN:** DaVinci Resolve/Adobe Premiere, Autodesk Maya/Blender, Adobe Photoshop/Illustrator

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## Achievements & projects

- NEXO hackathon - NFT price forecasting (2022 - 1<sup>st</sup> place)
- SENSIKA hackathon against disinformation (2022 - 3<sup>rd</sup> place)
- Mutual information between spike trains in metric spaces in Python/SciPy (*BSc thesis - graded 85/100*)
- Viola-Jones Object Recognizer with custom Hough-transform refinement in C++/OpenCV (*graded 80/100*)
- Bristol Museums volunteer database LAMP-stack web application (*2<sup>nd</sup> year group project - graded 62/100*)
- ARM hackathon - „Smart-plant“ using mBed NXP LPC1768 microcontroller (2015 - 3<sup>rd</sup> place)
- SENT protocol analog-to-digital processing and transmission over USB on ATmega1280 in C (*internship*)
- Simple procedural programming language and compiler with CAMLE in Java
- ARM microprocessor architecture emulator in Verilog
- A Raytracer and a Rasterizer in C++ and OpenGL (uni coursework + „Raytracing in a weekend“)



3D Artefact reconstruction: *The MVB - home to the Department of Computer Science @ UoB*

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## Learning aspirations

- **GENAI:** Langchain, LangGraph, Huggingface Agents & Tools, Nvidia NIM, Pinecone, Chroma
- **MLOPS:** Spark, Redis, Ray, Kubernetes, MLflow, LlamaIndex, Gradio, WandB/Neptune
- **CLOUD:** AWS, Azure, Google Cloud, Oracle