

Kristian T Krastev

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Experience

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

- 2019 - 2020** SOFIA UNIVERSITY - MSc Probability and Statistics (Faculty of Mathematics & Informatics)
Intermittent
- 2012 - 2016** UNIVERSITY OF BRISTOL - BSc Computer Science
Bachelor of Science with Second Class Honours (First Division)
Key subjects:
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|--------------------------------|--------------------------|
| • Machine Learning | • Computer Vision |
| • Computational Neuroscience | • Computer Graphics |
| • Signals, Processes & Systems | • Character & Set Design |
| • Data Structures & Algorithms | • Computer Architecture |
| • Theory of Computation | • Concurrency |
- 2007 - 2012** LYCÉE IV „Frederic Joliot-Curie“ - Secondary education - Varna, Bulgaria
Diploma of Secondary Education - Excellent 5.73 / 6.00
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Languages

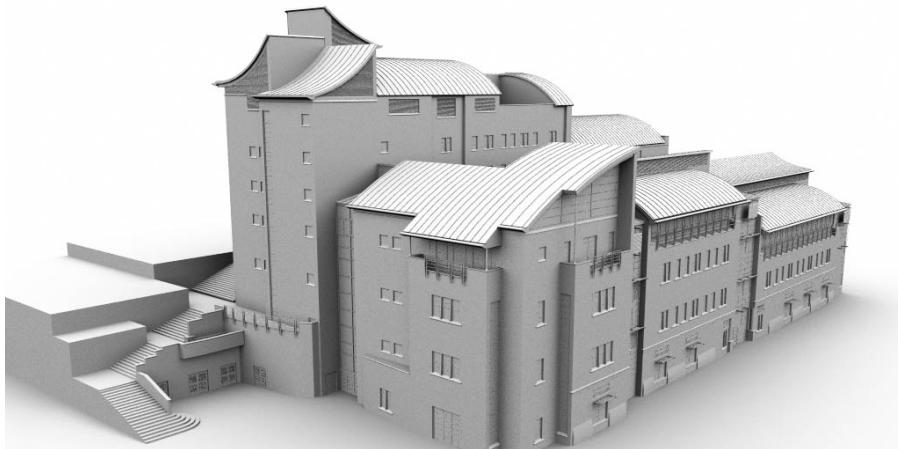
- 2011** Cambridge Certificate of Advanced English (CAE) - Grade A
Equivalent to Council of Europe Language Competence Level C2
- 2011** Diplôme d'études en langue française (DELF) - Niveau B2
Equivalent to Council of Europe Language Competence Level B2

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 - 1st place)**
- **SENSIKA hackathon against disinformation (2022 - 3rd 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 (*2nd year group project - graded 62/100*)
- ARM hackathon - „Smart-plant“ using mBed NXP LPC1768 microcontroller (*2015 - 3rd 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*

Learning aspirations

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