

# Kristian T Krastev

---

<b>email</b>	crustev.ct@gmail.com	<b>phone</b>	+359 (0) 885 957876
<b>website</b>	kidoai.xyz	<b>residence</b>	Alexander Malinov str., Varna, Bulgaria
<b>github</b>	krus7ev		Kaymakchalan str., Sofia, Bulgaria

---

## 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*
- 

## 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:*
- |                                |                          |
|--------------------------------|--------------------------|
| • 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*
- 

## 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*

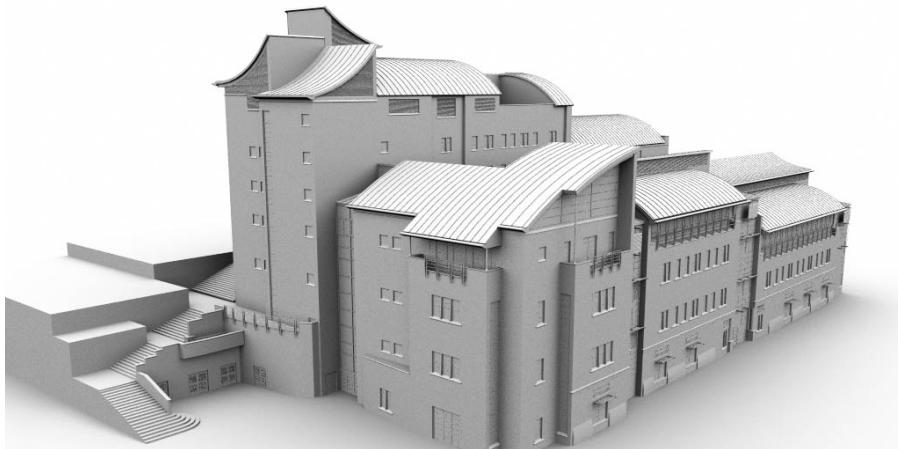
---

## 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
- 

## 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*

---

## Learning aspirations

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