

# Kristian T Krastev

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## Education

**2019 - 2020** Sofia University - MSc Probability and Statistics (Faculty of Mathematics & Informatics)  
*Intermitted*

**2012 - 2016** University of Bristol - BSc Computer Science  
*Bachelor of Science with Second Class Honours (First Division)*  
*Key subjects:*

- Machine Learning
- Computational Neuroscience
- Signals, Processes & Systems
- Data Structures & Algorithms
- Theory of Computation
- Computer Vision
- Computer Graphics
- Character & Set Design
- Computer Architecture
- Concurrency

**2007 - 2012** Lycée 4 Frederic Joliot-Curie, Varna, Bulgaria - Secondary education  
*Diploma of Secondary Education - Excellent 5.73 / 6.00*

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## Foreign 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*

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## Work experience

**2024 -** Cinetronic LLC - Bulgaria  
***Self-employed:*** Software & Web development, Film & TV production, Event management

**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 Bulgaria (prev. ASIC Depot) - Varna, Bulgaria  
***R&D Software Engineer:*** VLSI Design verification and embedded SDK development

**2016** Department of Computer Science - University of Bristol, UK  
***Summer Intern:*** Computational Neuroscience and Information-theoretic research

**2015** Zentrum Mikroelektronik Dresden AG (ZMDI) - Varna, Bulgaria  
***Summer Intern:*** Embedded firmware development

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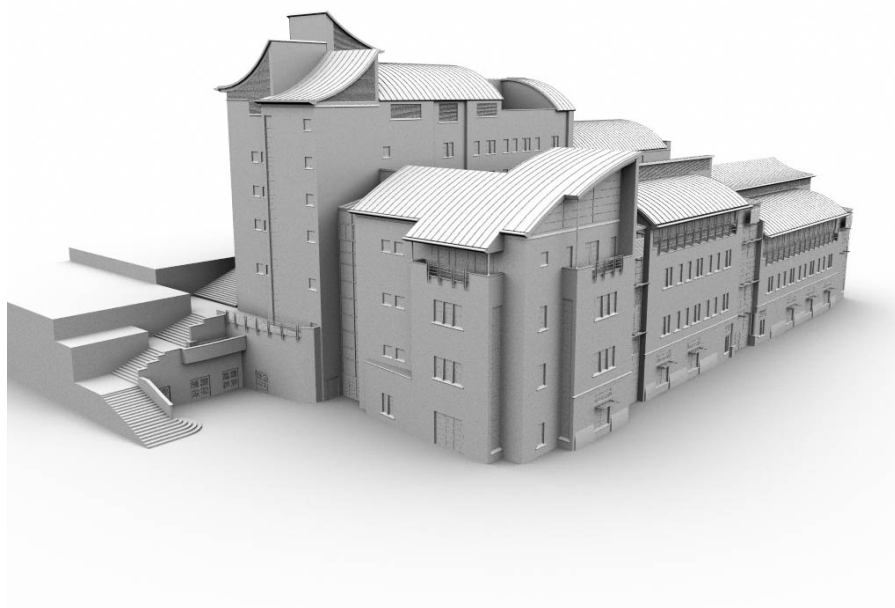
## Skills

- Python, C/C++, Rust and Java object-oriented programming (*in order of expertise*)
- ML & Deep Learning for Language and Vision (SVMs, RNNs, CNNs, LLMs, W2V, LDA, SGD, Trees, XGBoost)
- Scientific and numeric computation (Numpy, Scikit-learn, Tensorflow, Pytorch, OpenCV, MATLAB, R)
- API design REST/WebSocket (WSGI/ASGI, GRPC/Pyro5, Gunicorn/Uvicorn, Docker/Redis)
- LAMP-stack (modular) MVC Web development (JavaScript/TypeScript, Postgre/MySQL, PHP, HTML, CSS)
- Experience in Verilog/SystemVerilog, Haskell, Concurrent xC, TCL, Perl
- Media design (DaVinci Resolve/Adobe Premiere, Autodesk Maya/Blender, Adobe Photoshop/Illustrator)

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## Notable projects and achievements

- Sensika hackathon against disinformation (2022 - 3<sup>rd</sup> place)
- Nexo hackathon - NFT price forecasting (2022 - 1<sup>st</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++ with OpenGL (also completed „Raytracing in a weekend“)



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

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## Additional experience

2011 -

Artin Vision Films - Varna, Bulgaria

**Part-time / contract / volunteering:** Film & TV production, Event management

**Activities:** Film production - camera and editing work, Set & stage work, Event organisation, Technical support, Volunteers management, Marketing, Hospitality