

# Kristian T Krastev

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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:*
- 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

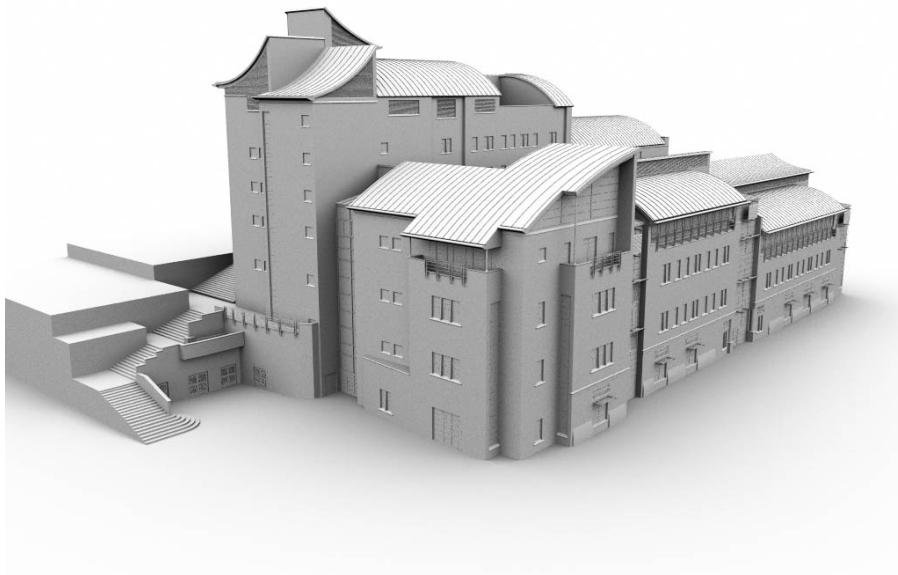
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## Skills

- 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*