

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

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

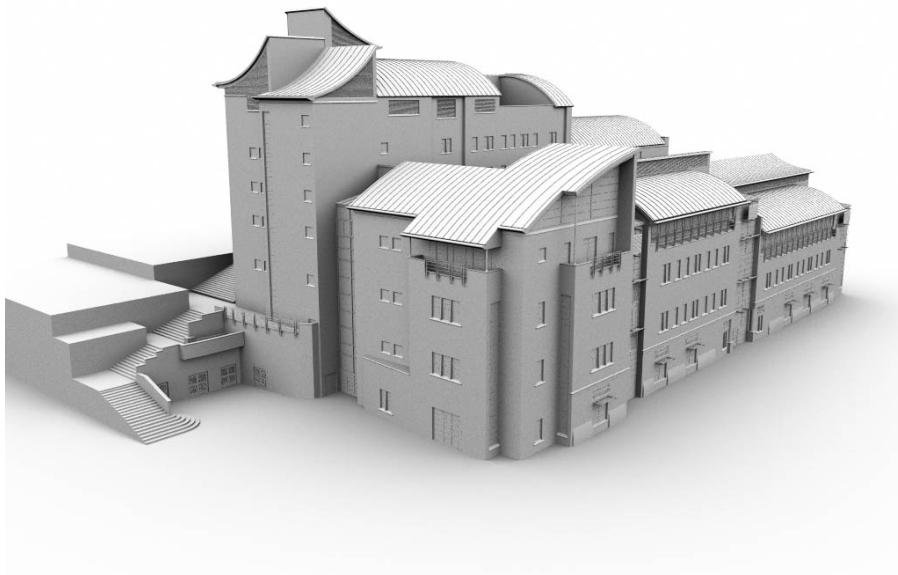
- 2024 -** Cinetronic LLC - Bulgaria
Self-employed: Software & Web development, Film & TV production, Event management
- 2021 - 2023** Identrics - Sofia, Bulgaria
Software Architect: Microservices architecture for NLP/LLMs and Computer Vision applications
- 2018 - 2021** Identrics - hybrid / Sofia, Bulgaria
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

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 - 3rd place)
- Nexo hackathon - NFT price forecasting (2022 - 1st 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++ with OpenGL (also completed „Raytracing in a weekend“)



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

Additional experience

2011 - Artin Vision Film Production & Distribution - Varna, Bulgaria

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

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