

Kristian T Krastev

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Education

- 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)
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

- 2021 - 2023** Identrics - Sofia Bulgaria
Software Architect: NLP micro-service architecture and CV application design
- 2018 - 2021** Identrics - hybrid / Sofia, Bulgaria
Machine Learning Software Engineer: NLP model development and inference service integration
- 2016 - 2018** Broadcom Bulgaria (prev. ASIC Depot) - Varna, Bulgaria
R&D Software Engineer: VLSI design verification & embedded SDK development
- 2016** Department of Computer Science - University of Bristol, UK
Summer Intern: Computational neuroscience information-theoretic research
- 2015** Zentrum Mikroelektronik Dresden AG (ZMDI) - Varna, Bulgaria
Summer Intern: Embedded firmware development

Skills

- Python, C/C++ and Java object-oriented programming
- ML & Deep Learning for NLP and Vision (Trees, SVMs, SGD, XGBoost, LDA, W2V, LMs, CNNs, Transformers)
- HTTP REST and WebSocket API design (Flask, FastAPI, GRPC, Pyro5, Gunicorn, Docker)
- Scientific and numeric computation (MATLAB, R, Numpy, Scikit-learn, Tensorflow, Pytorch, OpenCV)
- Experience in SystemVerilog, Haskell, Perl, Concurrent xC, TCL
- LAMP-stack MVC web development (JavaScript, SQL, PHP, HTML, CSS)
- Media design (Autodesk Maya, Adobe Premiere, Photoshop, DaVinci, Blender)

Additional experience

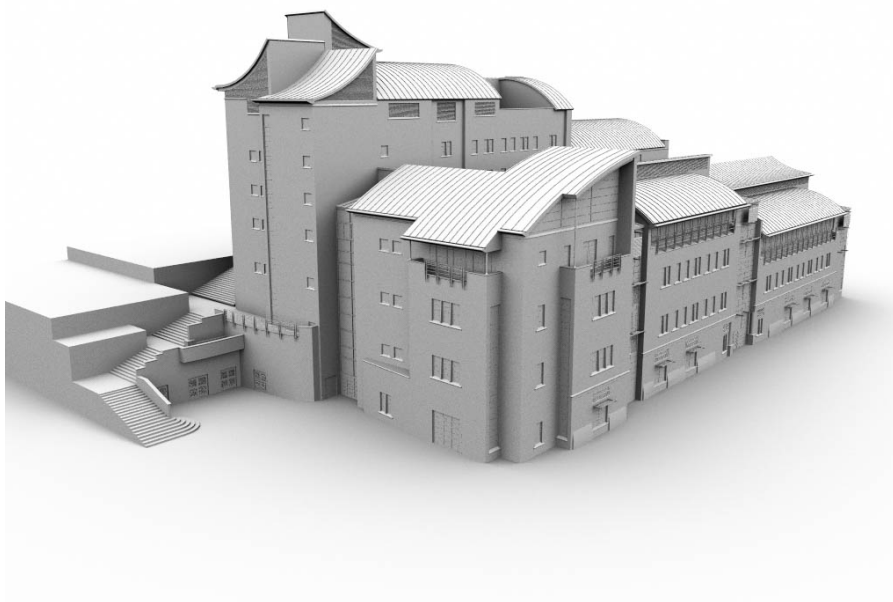
2011 - Artin Vision Film Production & Distribution - Varna, Bulgaria

Part-time / voluntary: production assistance, event management

Activities: film-set and stage work, event organisation, technical support, volunteers management, advertisement, hospitality, customer service

Notable projects and achievements

- 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*)
- "Smart-plant" using ARM mbed NXP LPC1768 microcontroller (*2015 ARM hackathon - 3rd place*)
- SENT protocol processing on ATmega1280 microcontroller in C (*internship project*)
- Simple procedural programming language & compiler with CAMLE in Java
- ARM processor architecture emulator in Verilog
- A basic Raytracer and a simple Rasterizer in C++ with OpenGL



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