

# Dobromir Marinov

*Cambridge, United Kingdom*

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## Personal Profile

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I am a software engineer specialising in the development and optimisation of distributed systems and their application for real-time data streaming and machine learning. My research interests include multi-agent reinforcement learning, federated learning and machine vision. The programming languages that I use daily are Rust and Python.

## Employment

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### Tenovos

*Cambridge, United Kingdom*

#### Senior Software Engineer

*March 2025 – Present*

- Developing a SaaS platform for visualisation, categorisation and discovery of large quantities of digital content.
- Building adaptive machine learning algorithms for dynamic content categorisation.
- Rust, Python, TypeScript.

### Nstream (formerly Swim)

*Cambridge, United Kingdom*

#### Software Engineer

*September 2019 – February 2025*

- Developing a distributed software platform for edge computing and real-time applications.
- Building commercial products based on the core system.
- Rust, Java, Python, TypeScript.

### MSX International

*Colchester, United Kingdom*

#### Software Engineer (Machine Learning)

*June 2018 – September 2019*

- Development of machine learning models for predictive analytics in the automotive industry.
- Building and deployment of microservices using cloud platforms.
- Python, R, AWS, Docker, Redshift,  $\text{\LaTeX}$ .

### MSX International

*Colchester, United Kingdom*

#### Software Engineer

*November 2016 – June 2018*

- Developing web applications for the automotive industry.
- Java, Oracle, Freemarker, Liferay, Hibernate, Gradle, Selenium.

**StangaOne1**

**Web Development Intern**

*Plovdiv, Bulgaria*

*July 2016 – September 2016*

- Developing commercial websites for business clients.
- PHP, MySQL, HTML5, CSS3, JavaScript, Laravel, jQuery.

## Education

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**University of Cambridge**  
MPhil Advanced Computer Science

*Cambridge, United Kingdom*  
*October 2023 – July 2024*

**Grade:**  
Distinction

**Thesis:**  
Anomaly detection on temporal graphs for suppression of adversarial communication in multi-agent reinforcement learning.

**Relevant Modules:**

- Federated Learning.
- Geometric Deep Learning.
- Machine Visual Perception.
- Multicore Semantics and Programming.
- Advanced Graphics and Image Processing.

**University of Essex**  
BSc Digital and Technology Solutions (Software Engineer)

*Colchester, United Kingdom*  
*October 2016 – September 2019*

**Grade:**  
First-class honours degree with an award for highest degree mark in the computer science and electronic engineering department.

**University-based Capstone Project:**  
Developing algorithm for automatic hyperparameter optimisation and neural architecture search.

**Work-based Capstone Project:**  
Creating a machine learning system for prioritisation of customer calls in a call centre.

**Relevant Modules:**

- Software engineering.
- Data structures and algorithms.
- Evolutionary computation and genetic programming.
- Advanced programming.

**Big Data and Analytics Summer School**  
Delegate

*Colchester, United Kingdom*  
*July 2018 – August 2018*

- Learning under different training and testing distributions.
- Visual recognition and tracking in large image and video datasets.
- Introduction to the modelling and analysis of complex systems.
- Artificial intelligence and neural networks in analytics.

**High School of Mathematics**  
Secondary education

*Plodiv, Bulgaria*  
*September 2011 – June 2016*

- Program with extensive study of mathematics, english and IT.
- Graduated with excellence: 5.93 out of 6.

## Awards

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### **Johnston Prize for Postgraduate Studies**

University of Cambridge

*Cambridge, United Kingdom*

*July 2024*

- Awarded for achieving Distinction in the Masters course.

### **Computer Science and Electronic Engineering Prize**

University of Essex

*Colchester, United Kingdom*

*July 2019*

- Awarded to the final year student who achieves the highest degree mark.

### **The Degree Apprenticeship Prize**

University of Essex

*Colchester, United Kingdom*

*September 2018*

- Awarded to the second-year apprenticeship degree student with the best overall mark.

### **K.F. Bowden Memorial Prize**

University of Essex

*Colchester, United Kingdom*

*September 2017*

- Awarded to the top 4 first-year students, in CSEE, with the best overall mark.

### **Award of Excellence**

High School of Mathematics

*Plovdiv, Bulgaria*

*June 2016*

- Awarded for overall performance above 5.80 out of 6.

## Certificates

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### **Tech Industry Gold Certificate of Recognition**

Tech Partnership Degrees

*London, United Kingdom*

*June 2019*

- Nominated by the University of Essex for outstanding academic achievements and awarded by the Tech Partnership Degrees.

### **General Data Protection Regulation (GDPR)**

MSX International

*Colchester, United Kingdom*

*April 2019*

- Certificate for completing a mandatory course in GDPR.

### **Information Security**

MSX International

*Colchester, United Kingdom*

*April 2019*

- Certificate for completing a mandatory course in information security.

## **StangaOne1 Academy**

**StangaOne1**

*Plovdiv, Bulgaria*

*January 2016 – May 2016*

- Certificate for successfully completing a web development course.
- PHP 5, MySQL, Git, JavaScript, jQuery, AJAX, HTML 5, CSS 3.

## **Publications**

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D. Marinov and D. Karapetyan, “Hyperparameter Optimisation with Early Termination of Poor Performers,” Computer Science and Electronic Engineering Conference 2019, September 2019.