

Nicholas Kastanos

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U.K. Work Authorisation

EDUCATION

University of Cambridge

Master of Philosophy in Advanced Computer Science.

Cambridge, UK

2020–Present

- Specialities: Machine Learning, Computer Vision, and Mobile Robotics.
- Thesis: *Optimisation of Deep Learning on Mobile GPU platforms*. Supervised by Prof. Cecilia Mascolo and Dr Jagmohan Chauhan.

University of the Witwatersrand

Bachelor of Science in Engineering (Electrical) Information, **with Distinction**.

Johannesburg, RSA

2016–2019

- Specialities: Software Engineering, Data Intensive Computing, and Control Systems.

EXPERIENCE

Business Science Corporation Global

Junior Developer.

Johannesburg, RSA

Jan 2020 – Sep 2020

- .NET Core (C#) and Angular (TypeScript) full-stack web developer for the FinTech domain, working in teams practicing Agile development.
- Part of start-up team developing a tokenised-investment platform.
- Responsible for SQL database and REST API design, and the creation of a debt-instrument trading system.

ABSA Group Limited

Vacation Work Student.

Johannesburg, RSA

Nov 2018 – Jan 2019

- Worked in the Cybersecurity department on phishing and malware system improvements.
- Designed and implemented an image recognition algorithm to detect company website duplicates.
- Increased the functionality of a Telegram chat bot, which can deliver live updates and statistics from a SQL server.

TATA Consultancy Services (South Africa)(Proprietary)

Vacation Work Student.

Johannesburg, RSA

Dec 2017 – Jan 2018

- Designed and implemented a mobile application using Xamarin.
- The application integrated Google Web Services to provide scheduling and calendar services.

PUBLICATIONS

- E. de Mello Koch, A. de Mello Koch, **N. Kastanos** and L. Cheng, “Short-sighted deep learning”, *Phys. Rev. E* 102, 013307, 10 July 2020
- A. de Mello Koch, **N. Kastanos** and V. Aharonson, “Monitoring Routine Changes From Daily Smartphone Usage”, *2020 IEEE International Conference on Human-Machine Systems (ICHMS)*, Rome, Italy, 2020

SKILLS

- Programming:** Python, C/C++, C#, MATLAB, Java
- Frameworks:** TensorFlow/Keras, Numpy, OpenCL, ROS, OpenCV, MPI, .NET Core, Angular
- Tools/Techs:** SQL, Linux, Azure DevOps, Git
- Web:** HTML/CSS, TypeScript/JavaScript

LANGUAGES

- English:** Native, IELTS: 8.5
- **GRE:** V: 159/170, Q: 160/170, AW: 4.0/6.0
- Greek:** Basic
- Afrikaans:** Basic