

# Nikola Georgiev

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## EDUCATION

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**University of Cambridge - Clare College**  
*BA Computer Science; 2:1*

Cambridge, UK  
*Oct 2019 - June 2022*

**Relevant Courses:** Algorithms, Object-Oriented Programming, Software & Security, Computer Arch.

**International School of Prague**  
*International Baccalaureate Diploma; 43*

Prague, CZ  
*Aug 2017 - May 2019*

## WORK EXPERIENCE

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**Cyber-Human Lab (IfM) – Software Engineer**

*Aug. – Sept. 2021*

Built a C# client to track and store research data from virtual learning environments on a Django server.

**Citrix – Intern Software Engineer**

*July – Sept. 2021*

Developed Python tools packaged as RPMs to speed up management of the hypervisor update pipeline.  
Created a Flask app to unify the tools and enable interaction through a user-friendly web UI.

**Pulse Secure – Intern Software Engineer**

*July – Sept. 2020*

Managed a Kubernetes cluster with Terraform, Kustomize and Docker to build and deploy microservices.  
Wrote Python scripts for data recovery with Elasticsearch REST API, improving efficiency by 40%+.  
Researched the potential of switching the existing logging/alerting services to Elastic's APM.

## PROJECT EXPERIENCE

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**Investigation of Pose Estimation From Sparse Inertial Data (pdf)**

*Oct. – May 2022*

Developed a fixed-lag smoother algorithm in PyTorch for fusion of inertial sensor measurements.  
Tested my approach with data collected on an Arduino Nano 33 for 3D pose estimation over Bluetooth.

**West Cambridge Air Freight (MathWorks post)**

*Feb. – Mar. 2021*

Collaborated in a team of six to develop an autonomous drone delivery system for package transportation.  
Designed the UI in App Designer to facilitate mission planning for a Simulink quadcopter model.

**Ace Task Tracker (download)**

*Aug. – Sept. 2020*

Created a task tracking and scheduling app to help university students improve their productivity.  
Worked with a Flutter front-end and Firebase for authentication & storing user data in a NoSQL database.

## SKILLS AND INTERESTS

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- **Programming Languages:** Python, Java, C++, C#, OCaml, JavaScript
- **President Cambridge AR/VR Society (2021):** Led workshops and meet-ups
- **Bulgarian:** Fluent **German:** Goethe-B1