

Nikola Georgiev

Email: nikola.georgiev2000@hotmail.com
Github: github.com/nikolageorgiev2000

Personal site: jtogen.com
Mobile: +44 7403307207

EDUCATION

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

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

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 (Google Play)

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

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