# Amar Lakshya

A cyber security postgraduate with extensive professional experience in C++ and distributed systems.

Skills:

Languages: C, C++, C#, Rust, Python, Java, JavaScript

Operating Systems: Linux, Windows, Mac

Frameworks: Apache, Docker, AWS, React, Qt, ROS, RabbitMQ

Databases: PostgresSQL SQL, GraphSQL, Redis

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https://www.linkedin.com/in/amar-lakshya

https://amar-laksh.github.io/

### Work experience

### **Sky Drones**

### Contract- Software Engineer Sep 2020 — Present

Designing and developing the drone controller software using C++17, python, Qt5 and handling deployment using Github Actions, AWS

### **Nymble Labs**

Full-time Systems Engineer Sep 2018 — Feb 2019

- · Implemented the next iteration of the product using C++14, ROS2 and Qt5.
- · Revamped the entire software architecture to produce secure, clean OOP code.

Intern - Software Engineer Dec 2017 — Jul 2018

- Designed a ROS2 based distributed software architecture of the system.
- Wrote a Qt5 based display application for the on-board display.

### Education

M.Sc. Cyber Security Sep 2019 - Sep 2020 *University of Birmingham* Distinction

- Cryptography
- Intelligent Data Analysis (Extended)
- · Designing secure systems
- Hardware and Embedded Systems Security
- Forensics and Malware Analysis
- Network security (Extended)
- Penetration Testing
- Research project

#### **B.Sc. Information Technology** Jul 2014 - Apr 2017 2:1

St. Xaviers' College

• C, C#, C++, Java, Data Structures, Software Engineering, Operating Systems, Data Mining.

### **Publications & Certifications**

- CompTIA Sec+ Certificate
- Crossed & Knotted, Composite Novel

## **Projects & Contributions**

#### Hack-A-Mole

**Sep 2020** 

 An analysis and extension of hacking games that are used to teach penetration testing to students.

#### **Logi's Circle of Security Apr 2020**

- · A penetration test conducted on Logitech's Circle camera.
- The test showed that the Logi Circle is well-secured.

FOS Oct 2019

· A Monolithic UNIX-like Kernel for the x86 and ARM (Raspberry Pi) platforms.

### **TryingToKnowYouBetter**

**Nov 2019** 

The Indian Election Commission's website leaks data that can be analysed to effectively locate all registered voters.

#### Vitae

**Apr 2018** 

An Esoteric, Interpreted Python-built language built entirely with regular expressions.

### Cache patches, Mozilla

**Sep 2018** 

 Worked on patching cache entries that expire immediately in the cache core of *Mozilla C++* codebase.

### **CAPTCHA Study**

Mar 2017

of CAPTCHA An extensive study systems present on The Election Commission Of India's websites across all the states in India.