



WATHSALA VISHWAJITH

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⚙ Off-Grid Enthusiast

ABOUT

I have experience with many aspects of software engineering, but back-end development is my one true love. I convert my weaknesses into productivity, the same way laziness drives me to make a task as easy as possible, utilizing the power of a language.

I am a man of many interests, securing web applications - or breaking them - for fun, while being a time-travel-fiction nerd (who doesn't want to turn back time right?)

When it comes to Security and Hacking, I would say I am completely driven by curiosity. I want to learn what happens in a web application or on a computer from outside. I poke around and sometimes I get lucky, and most of the time it's a dead-end. But I like the research that leads up to such a dead-end. Sometimes it's reading an article written in a foreign language, sometimes it is in the deep deep web that no one has thought to go there.

The thrill of uncovering admin panels here and there, and doing some CTFs, sometimes it's stressful and might make me bald someday by pulling my hair when it gets tough. But at the end, when you have the access, when you get the flag. Makes it all worthwhile.

EDUCATION

BSc (Hons) | Computer Science

University of Colombo School of Computing

Mar. 2019 – May. 2024

Col. 7, Sri Lanka

- **Graduate Coursework:** Design and Analysis of Algorithms, Operating Systems, Object-Oriented Design and Development, Database Management Concepts and Systems, Software Engineering, Internet Protocols, Data Intensive Computing, Functional Programming, System and Network Administration.
- **Research:** *Consensus Based Cooperative Localization on Untrusted Devices* - Blockchain, Bluetooth and Nearby Communication technologies, Distributed Systems, Localization, Proof-of-Location, Proof-of-Delivery.

Advanced Level | Physical Science

Royal College

Mar. 2009 – Aug. 2017

Col.7, Sri Lanka

- Air-Force Cadet. Participated in Hermann Loos Championship preliminary selections at Diyathalawa.
- Senior Member at ICT Society. Participated in various inter-school ICT competitions.

WORK EXPERIENCE

Intern Information Security Engineer/Cyber Security Analyst

[BugZero.io](https://bugzero.io/)

Nov 2022 – Present

<https://bugzero.io/>

- Knowledge Sharing Session on MITRE ATT&CK Framework, Organized and presented in awareness sessions about cyber-security and bug hunting for undergraduates and high-school students.
- Tested the security of in-house applications by deploying them on Google Cloud Platform.
- Assisted in creating datasets for Large Language Models (LLM) for analyzing threat reports.

SKILLS

Languages: English (Fluent), Sinhala (Native)

Technical: Javascript, React, Python, PHP, MySQL, Git, Nmap

Application Security: MITRE Attack, BurpSuite, OWASP Top 10, Nmap, Postman, Documentation

Cloud: GCP, Azure

PROJECTS

qr-file-exfil | : *React, QR Code Spec.*

2023

Personal Project

- Method of ex-filtrating data over a restricted device.
- Tries to keep minimum auditable logs and forensic traces.

iCS CTF | : *PHP, expressJS*

2020 - 2024

ISACA Student Group

- Developed Various Jeopardy Style Capture-the-Flag events for both internal and island-wide competitions.
- Introduces various vulnerabilities for applications to aid student-centered learning in cybersecurity.

miCar | : *React, React-Native, Firebase, Google Maps API*

2022

UCSC

- A application for all of your vehicle needs. Gathers data in the palm of your hand. Sends reminders for important dates.

Grocery Galleria | : *MVC, REST, PWA, Google Maps API*

2021

UCSC

- Developed a PHP application from scratch using MVC architecture. Grocery Galleria is an e-commerce platform for small/mid-scale entrepreneurs to have online exposure. The idea was to give the customers the same experience that they have when they are shopping traditionally. Customers can see the selected shops from their region, order from multiple shops, and deliver those orders by a single rider.

CLUBS AND SOCIETIES

President | : *From being a member as a fresh undergrad*

Jun 2020 - Present

Ongoing Projects:

ISACA Student Group of UCSC

- Introductory Capture-the-flag competition for fresh undergraduates (held Dec. 23th, 2023)
- Monthly meetups for sharing knowledge in Security and related topics. (Ongoing)
- Inter-University CTF Competition, one of the biggest CTF competitions in Srilanka (Work In Progress)
- Founded the University CTF team for future international competitions.

CERTIFICATIONS

- **Linux Systems Administration and DevOps Engineering Training Program by WSO2** : Six month program on Linux System administration and DevOps. Got hands-on experience with Linux in a cloud environment and using deployment methods such as automated deployment using Ansible and Terraform.
- **Introduction to Quantum Computing Course 2020/2021** : Year long program on foundational understanding of quantum computing, including basic linear algebra, quantum mechanics, quantum computation and information, and quantum algorithms. Each week students participate in three activities: a 1.5 hour lecture, a 1-hour lab with a Teaching Assistant, and a homework assignment.
- **WSO2 WSO2 Certified Identity Server Practitioner - V5** Certification
- **WSO2 WSO2 Certified API Manager Practitioner - V4** Certification
- **Microsoft INF217x: Windows Server 2016: Advanced Storage** Certification
- **Microsoft Microsoft Certified: Azure Data Fundamentals** Certification
- **Microsoft Microsoft Certified: Azure Fundamentals** Certification
- **FreeCodeCamp Responsive Web Design** Certification
- **Basis Technology Autopsy 8-Hour Online Training** Certification
- **Coursera Cloud Architecture with Google Cloud Specialization** Certification
- **Coursera Networking in Google Cloud Specialization** Certification
- **Coursera Security in Google Cloud Platform Specialization** Certification

REFERENCES

Ref. 1

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Ref. 2

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LSEG