

YAGAKA TAGNE GABRIEL WILFRIED

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EDUCATION

University of Yaounde 1

Sept 2023 – June 2024

First year Master's in IT Security

University of Dschang

June 2023

B.S. Computer Science

COURSEWORK

Courses: Object-Oriented Programming, Data Structures & Algorithms, Database Management System, Dynamic web programming, Linear Algebra, Operating System, Networking, Probability & Statistics, Mobile Development, Cryptography, Computer Security, Theory of Computation, Software Engineering, Data Engineering, Information System, Formal Language and Compilation, Design and analysis of algorithms, web application Engineering, Structured programming

SKILLS

Programming Languages: C/C++, Python, Java, JavaScript/TypeScript, HTML/CSS, PHP, LaTeX

Tools: Git/GitHub, Docker, MySQL, PostgreSQL, Sqlite, VS Code, PyCharm, Eclipse, Code::Blocks, Cursor, Trello

Frameworks: Laravel, Django, Flask, Fast-api, Nodejs, Bootstrap, Tailwind, React.js, React Native, OWASP Top 10

WORK EXPERIENCE

Alshadows Technology | *Full-Stack Mobile and Web Developer, GitHub, (UX/UI)*

January. 2025 – May. 2025

- Assist with the configuration and maintenance of servers.
- Monitor the performance and security of systems.
- Automate certain tasks with scripts.
- Install and configure software.
- Working as a full-stack developer
- Participate in the design and analysis of software
- Working on the analysis and implementation of a mobile application using React Native and an administration dashboard using React.js for an E-medical app (HomeDoctor)
- Familiarized with GitHub, GitHub actions, and Trello for task assignment, version Control, and automation.
- Implemented the website of Alshadows Technology using React.js, which could be seen at alshadows.com
- Participated in the implementation of Sultanatbamoun website at sultanatbamoun.cm
- Participated in the analysis and implementation of the internet of Cameroon website at internet.cm
- Experience with Rest Api.
- Performing security testing and applying secure code principles by OWASP

Alfirk Agency | *Artificial Intelligence and Software Developer Intern*

June. 2024 – May. 2024

- Working as a full-stack developer
- Participate in the design and analysis of software
- Working on E-commerce web applications using React.js and Laravel 9)
- Familiarized with GitHub, Trello for task assignment, version Control, and teamwork.
- Experience with Rest Api.

PROJECTS

- CloudDeal** | *Laravel, HTML/CSS, Alpine.js, APIs (Stripe), MySQL, Git/GitHub, AJAX, Trello, JQuery, VS Code* Nov. 2023
- Developed a full-stack web application CloudDeal(An online exchange site developed to cater to the African and Cameroonian mentality) with Laravel
 - Used Laravel API in conjunction with backend databases and APIs
 - Experimented with MVC architecture
 - Implementation of dynamic search on a Laravel project with Alpine.js.
 - Use of the MySQL database management system for data storage.
 - Use of GitHub for version control and project evolution.
 - Integration of Stripe payment on a Laravel project.
 - Use of Trello for task assignment.
 - Solved problems relating to asynchronous tasks
- BioTrack** | *Django, HTML/CSS, JavaScript, OpenCV, Git, SQLite, PyCharm* Dec 2023 – Jan 2024
- Developed a full-stack web application for student authentication by face recognition using Django.
 - Experimented with MVT architecture
 - Solved problems related to image model training
- StudyBud** | *Django, HTML/CSS, JavaScript, Socket, Git, SQLite, PyCharm* May 2023
- Developed a full-stack web application chat room with Django
 - Experience with MVT architecture
 - Collaborated with live streamers to get feedback and suggested features
 - Solved problems relating to asynchronous tasks
- Crypto-AES-DES** | *Django, python, Html, Bootstrap, Javascript, Github* Sept 2023 – Nov 2024
- Analysing and implementing the Advanced Encryption Standard(AES) and the Data Encryption standard(DES) algorithms using python
 - Developing a web application using Django to utilize these algorithms
 - Collaborating with a team throughout the development process.

RESEARCH PROJECT

- Multi-domain Deception** | *Reinforcement Learning(POMDP), Machine Learning, cyber deception* May 2025 – present
- Proposing an optimisation framework for an existing two-layer signaling game model using machine learning
 - Designing a multi-agent reinforcement learning model for the two sender(Defender), receiver (attacker) model designed by Kamdem et al (2024), Two-Layer Deception Model Based on Signaling Games Against Cyber Attacks on Cyber-Physical Systems
 - Working in collaboration with Dr. Charles Kamhoua(Network Security Branch, DEVCOM Army Research Laboratory, Adelphi, MD 20783, USA), and Aymar Le Pere(University of Dschang).

EXPERIENCE

- Computer Science Club** | *Member* Sept. 2023 – Present
- Involved in the club centered around the Mentorship program for undergraduates
- Voluntary** | *Tutor* 2019 – Present
- Routinely tutor students in math, Computer Science, Web development, and cybersecurity.

HOBBIES

- Playing Basketball** 2019 – 2022
- Played the regional basketball competition of the littoral region.
- Coding challenges** Feb. 2024
- Participated in the TAI-IP-21 Day JavaScript Challenge

LANGUAGES

- English** | *Native*
- French** | *Advanced*