

# TANGU ACHILIS SHEY DOR

Computer Engineer

Bamenda, Cameroon | +237654097074 | [tanguachilis@gmail.com](mailto:tanguachilis@gmail.com)

<https://www.linkedin.com/in/tangu-achilis/>

<https://github.com/TanguAchilis> | <https://gitlab.com/Achilis>

## ABOUT ME

I am a computer engineer with a passion for Artificial Intelligence (AI) and Machine Learning (ML), both academically and professionally. I possess extensive knowledge of software engineering and software development, with a mastery of both front-end and back-end technologies. My focus lies in developing platforms and systems that leverage AI and ML to address societal problems.

My expertise in web, mobile, and desktop application development, combined with my creative and determined approach, enables me to design and develop innovative solutions that meet the unique needs of each project. I am optimistic and always strive for excellence, believing that there is always room for improvement. Additionally, I am open to new learning challenges and continually seek to expand my knowledge and skills in AI and ML.

## EDUCATION

### **Masters of Science [ 2022 – Ongoing ]**

National Higher Polytechnic Institute of the University of Bamenda

### **Master of Engineering [ 2021 – 2022 ]**

National Higher Polytechnic Institute of the University of Bamenda

### **Cloud developer nanodegree [ 2022 ]**

ALX & Udacity

### **Bachelors of Engineering [ 2017 – 2021 ]**

Higher National Polytechnic Institute of the University of Bamenda

### **Applied Data Science with python [2020]**

World Quant University

### **Cameroon GCE Advanced Level [ 2015 – 2017]**

Cameroon College of Arts, Science and Technology (CCAST) Bambili

### **Cameroon GCE Ordinary Level [ 2010 – 2015]**

Cameroon College of Arts, Science and Technology (CCAST) Bambili

## TECHNICAL SKILLS

- Programming Languages: C, Python, C++, JavaScript, MATLAB, Dart, Java, Solidity
- Web Technologies: React js, Vue js, Nuxt js, Flask, HTML, CSS3, Bootstrap4, tailwind CSS
- Mobile Technologies: Flutter
- Server Side: Flask, Django, Xampp, Ethereum blockchain
- Desktop Technologies: Tkinter, Electron js
- Data Science Technologies: NumPy, Pandas, matplotlib, seaborn, sklearn, tensorflow, keras
- Version Control: Git, GitHub, Gitlab
- Environments: Visual Studio Code, windows PowerShell, anaconda (Jupyter notebook, Spyder 5), PyCharm, android studio
- Database: PostgreSQL, MySQL, Mongo DB, Firebase, Ethereum, IPFS
- Systems: Windows, Linux
- Cloud Service: AWS

## EXPERIENCE

### **Instructor at the National Higher Polytechnic Institute of the University of Bamenda, October 2022 till date**

- Teach computer engineering courses to undergraduate students.
- Plan and deliver lectures, lab sessions, and assessments on a range of topics, including programming, data structures and algorithms, database systems, computer networks, and software engineering.
- Use various teaching methods and tools to engage and motivate students and facilitate their learning.
- Provide guidance and support to students in their academic and professional development.
- Collaborate with colleagues and stakeholders to develop and review course materials, assessments, and curriculum.
- Serve as a mentor and role model to students, demonstrating a passion for computer engineering and a commitment to excellence.
- Contribute to the reputation and success of the school by fostering a culture of innovation, collaboration, and academic excellence.

### **Attended CARI 22 (An international conference on applied mathematics)**

University of Dschang, October 2022

### **Attended INDABA 22 (An international conference on machine learning, Cyber security and Digital economy)**

University of Dschang, October 2022

### **Volunteer (UN Telemedicine project)**

UN, April to October 2022

### **Intern at Gohze sarl, Yaounde, March to May 2022**

Blockchain development using Ethereum protocol, Ganache, web3 js, solidity

Frontend development using react js, tailwind css

Version control using git, gitlab

### **Attended Meet the Socio-Professional circle experts**

National Higher Polytechnic Institute of the University of Bamenda, May 2021

### **Intern at Upgrade Group sarl, Yaounde, April to September 2020**

Frontend web development using vue js, nuxt js, tailwind css, bootstrap

Version control using git and gitlab

### **Intern at Upgrade Group sarl, Yaounde, August to October 2019**

Frontend web development using pure html, css and JavaScript, Vue js, tailwind CSS

Version control using git and gitlab

## **PROJECTS**

### **UN Telemedicine**

- Worked as a frontend developer on UN Telemedicine, an online platform that facilitated remote consultations between patients in Cameroon and medical doctors from around the globe.
- Developed and maintained the frontend of the platform, utilizing various technologies such as HTML, CSS, JavaScript, and Vue.js to ensure a seamless and user-friendly experience for patients and doctors.
- Collaborated with the backend team to ensure efficient data transmission and API integration, and conducted rigorous testing to ensure the platform's reliability and security.
- Demonstrated excellent communication skills and attention to detail to ensure timely and effective delivery of the project.
- Contributed to improving healthcare access in Cameroon by enabling remote consultations and connecting patients with qualified medical professionals from around the world.

### **Blockchain system to certify images**

- Designed and developed a blockchain-based system to certify the authenticity of digital images, as part of the Master's of Engineering program.
- Utilized cutting-edge technologies, such as smart contracts, IPFS, and Ethereum blockchain, to create a secure and reliable platform for image certification and sharing.

- Demonstrated strong problem-solving and technical skills to ensure the project's success and deliver a high-quality product.
- Conducted extensive research and testing to optimize the system's performance and user experience.
- Contributed to advancing the field of blockchain technology and proposed a practical solution to address the issue of trust and authenticity in digital images.
- Demonstrated excellent independent research and project management skills, as well as the ability to work collaboratively with peers and advisors to achieve the project's objectives.

### **Fake news detection system**

- Designed and developed a fake news detection system using machine learning algorithms and natural language processing (NLP) techniques as part of a Bachelor's project.
- Utilized a labeled dataset from Kaggle to preprocess and train the model, and implemented various machine learning classifiers with extensive hyperparameter tuning to select the top-performing classifier.
- Exported the final model using the joblib library, and integrated it with a mail client built using Python Flask to effectively classify incoming emails as spam or not.
- Demonstrated excellent problem-solving and technical skills, as well as the ability to work collaboratively with a team to deliver a high-quality project.
- Contributed to addressing the critical issue of fake news and misinformation in today's society by proposing a practical solution to detect and prevent the spread of fake news.
- Successfully completed the Bachelor's project and earned academic recognition for the project's technical excellence and practical value.

### **Open exams**

- Contributed to the creation of an e-learning platform that enabled schools to upload and manage content for their students, as well as administer online exams.
- Worked as a frontend developer, utilizing Vue.js, Tailwind CSS, and LaTeX to develop a modern and user-friendly interface.
- Collaborated with the team to ensure version control through Git and GitLab, and helped ensure the development process was smooth.
- Demonstrated excellent teamwork, problem-solving, and technical skills to deliver a high-quality project.

## **Hobbies**

Reading, Traveling, Sports, Playing music, Gaming and Cooking

## Languages

English: Native Language

French: A1 – Beginner

## References

### **Engr. Ndjock Michel Junior**

Instructor, National Higher Polytechnic Institute of the University of Bamenda,  
[ndjockjunior@gmail.com](mailto:ndjockjunior@gmail.com)

### **Dr. Nsangou (Mama) Mouchili**

Affiliate Assistant Professor, Concordia University  
Lecturer, National Higher Polytechnic Institute of the University of Bamenda  
[mnsangou.mouchili@gmail.com](mailto:mnsangou.mouchili@gmail.com)

### **Engr. Boris Martial Foding**

Chief Technology Officer at GOHZE sarl,  
[bfoading@gmail.com](mailto:bfoading@gmail.com)