

Jean Lucien Randrianantenaina

🏠 25 years

🇲🇵 Malagasy

📍 Fianarantsoa, Madagascar

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🌐 <https://fahazavana.github.io>

🔗 Fahazavana

🌐 Jean Lucien RANDRIANANTENAINA

🔗 Denote a web hyperlink

About me

I am an enthusiastic problem-solver with a deep passion for mathematics and computer science. I enjoy learning and tackling challenges that require me to apply my interpersonal skills and technical know-how, as well as those that provide opportunities for personal growth. Moreover, I am always ready to face any challenges. I am dynamic, creative, flexible and a team player.

Skills

Langue

🇬🇧 English ● ● ● ● ● ●
🇫🇷 French ● ● ● ● ● ●
🇲🇵 Malagasy ● ● ● ● ● ●

Programming

📄 HTML 2+ yrs
📄 CSS/SASS 2+ yrs
🐍 Python 2+ yrs
📄 JS/NodeJs 1+ yrs
📄 R 1+ yrs
📄 SageMath 1+ yrs
📄 L^AT_EX 5+ yrs

Databases

📄 MySQL, Sqlite 1+ yrs

Versionning

📄 Git/GitHub 2+ yrs

Education

MSc. in Mathematics and Application, 2019 – 2024
Major Fundamental Mathematics
Faculty of Science, University of Fianarantsoa

Buisness Management Jul – Aug 2023
ESMT Berlin
Industry Immersion Program, African Institute for Mathematical Sciences.

MSc. in Mathematical Sciences 2022 – 2023
Major fundamental sciences, with distinction
African Institute for Mathematical Sciences (AIMS) Cameroon

Back-End web development Jan – Aug 2022
SAYNA / D-CLIC program
I learn more about web development, improve and gain new knowledge in HTML, CSS, MySQL, JavaScript and NodeJs.

BSc. in Mathematics and Application, 2015–2018
Major Fundamental Mathematics, with honour
Faculty of Science, University of Fianarantsoa
Project: "Résolution par radicaux", supervised by Pr. Solo Randriamahaleo, University of Fianarantsoa.

Baccalaureate in Technology in Industrial Engineering 2012 – 2015
Technical High School Beravina Fianarantsoa
Passed with a grade fairly good

Publication

Florian Luca and Jean Lucien Randrianantenaina,
"There Is No Carmichael Number of the Form $2^n p^2 + 1$ with p prime",
INTEGER, Volume 23 (2023) 🔗

Talk

Fermat's last theorem, with $n=4$ Feb 2023
African Institute for Mathematical Science Cameroon
Presented to AIMS Cameroon students. Supervised by Prof. Dr Hans Georg Rück, Universität Kassel.

Personal projects

Mk-Forum 🔗 2023
Creation of a forum dedicated to mathematics, developed using HTML, CSS/Bootstrap, and JS for the front end; Python/Django and MySQL for the back end. This project includes user account management, posts, comments, and a voting system.

Operatins System**Windows:** 7, 8, 10**Linux:** Debian, Ubuntu, Slax**Framework and library****Web:** Bootstrap, JQuery**Python:** Django, Flask, Sympy, Pandas, Numpy, Scipy, Matplotlib, Tensorflow**Office tools**

Excel, Word, PowerPoint, Libre Office

FCryptos**2023**

Implementation of cryptography methods with Python: Shift cypher, Vinère cypher, SPN, RSA, and ENIGMA machine.

Unbeatable TicTacToe**2022**

Tic-Tac-Toe game created with HTML, CSS and JavaScript, and features an automated computer player that uses a combination of random placement and min-max algorithm to make each move depending on the chosen level

Pendu Malagasy**2022**

A Malagasy version of the game Hangman, built with Python3/TKinter.

Bellman-Kalaba**2021**

A graphical interface for the algorithm of Bellman-Kalaba (shortest path) made with Python3/TKinter.

Extracurricular activities and courses**Group leader and mentor****2022 – 2023**

Saker Baptist School, a girls' college in Limbé, Cameroon, to introduce them to the world of STEM.

CIMPA Research school Fianarantsoa, Madagascar**2021**

Probabilistic and statistical modelling in epidemiology and environment.

Other

- **Hobbies:** Music (singing, playing guitar), trekking.

References**Dr Tchagna Kouanou Aurelle**, *University of Buea, Cameroon*,

Phone: +237 696 263 641

Email: tchagna.aurelle@ubuea.cm**Prof. Florian Luca**, *School of Mathematics, University of the Witwatersrand, Wits, South Africa* and *Centro de Ciencias Matemáticas UNAM, Morelia, Mexico*,

Phone: +270 117 176 243

Email: Florian.Luca@wits.ac.za**Prof. i.R. Dr. Hans-Georg Rück**, *Department of Mathematics and Computer Science*, University of Kassel, Germany

Phone : +261 34 01 226 31

Email: rueck@mathematik.uni-kassel.de**Prof. Andreas Buchleitner**, *Department for Quantum Optics and Statistics*, Institute of Physics, Albert-Ludwigs-Universität Freiburg, Germany

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