

Lulamile Plati

Applied Statistics Graduate



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Recent graduate from the University of Cape Town with a degree in Applied Statistics, supplemented by foundational coursework in Computer Science at the first- and second-year levels. I possess a strong foundation in data analysis, statistical modelling, and programming. Proficient in Python, R, HTML, CSS, MySQL, JavaScript and Java, my skills extend to statistical techniques such as regression analysis, machine learning, and data visualization. I am passionate about leveraging data-driven insights to tackle complex problems and am eager to apply my analytical and technical expertise in a dynamic role within data science or analytics.

Websites, Portfolios, Profiles



<https://github.com/Lula-Benni>



<https://www.linkedin.com/in/lulamile-plati/>



<https://lulamile-plati-portfolio.vercel.app/>



Skills

- Java, C#, R programming
- Git, Python, Linux ubuntu, Assembly programming language
- Object Oriented programming
- SQL, HTML, CSS
- Model-View-Controller (MVC), UML
- Algorithms, machine learning in R programming, Java Swing
- Statistical Inference & Modelling
- Operational Research Techniques
- Critical Thinking, Teamwork, Communication, Patience
- Emotional, intelligence, Adaptability, Self-motivation

- Basics in Kotlin & Android Studio
- Tableau
- R Machine Learning Libraries
- Regression Analysis, Clustering, Neural Networks.
- **Statistical Tools:** Hypothesis Testing, Regression Analysis, Bayesian Inference
- **Soft Skills:** Analytical thinking, problem-solving, communication, teamwork
- MS Word, Excel



Work History

Computer Science Tutor

University of Cape Town Promaths Alumni, Cape Town, South Africa

Tutor for the first year Computer Science Course (CSC1016S) for Promaths Alumni students. This course was to introduce students to Java Object Oriented design techniques and UML diagrams and Data Structures. It also includes the use of inheritance, polymorphism, interfaces and Gui programming in Java.



Education

Bachelor of Science: Applied Statistics

University Of Cape Town - Cape Town, South Africa.

Completed University-level Coursework: [Applied Statistics, University of Cape Town](#)

Completed University-level Coursework: Applied Statistics, University of Cape Town The statistics component commenced with STA1000S, providing a foundational understanding of introductory statistics, including statistical modelling and exploratory data analysis. Subsequent courses such as STA2020F, STA2030S, and STA3030F delved into applied statistics, statistical theory, Bayesian inference, generalized linear models, and machine learning using R, respectively. STA3036S operational research techniques in applied statistics, including linear programming and decision-making under uncertainty. STA3022F The course emphasized practical familiarity with multivariate data analysis techniques applied in fields such as marketing, social sciences, and sciences. Topics covered included item reliability analysis, multidimensional scaling, correspondence analysis, principal component and factor analysis, cluster analysis, discriminant analysis, classification trees, and structural equation modeling.

Completed University-level Coursework: [Computer Science, University of Cape Town](#)

Beginning with CSC1010H, the program initiated with an introduction to problem-solving, algorithm development, and Python programming. Progressing to CSC1011H, the focus extended to object-oriented

design in Java and ethical considerations in computing. CSC2001F further explored data structures, algorithms, and database manipulation using Java in a Unix environment. CSC2002S The course aimed to complete the foundational education of a Computer Scientist, covering mobile application development, interface design, computer architecture, and concurrent programming. Practical components included Java programming and assembler language.

Completed University-level Coursework: [NQF6 Information Systems, University of Cape Town](#)

INF2009F and INF2011S covered systems analysis, design, and implementation, with a strong emphasis on practical application and object-oriented tools.

This educational journey at the University of Cape Town provided a well-rounded foundation in computer sciences and applied statistics.

Senior Certificate

Phakama Secondary School - Cape Town, South Africa



Projects

Android Alphabet Book

The Alphabet Book App is a delightful and interactive educational application designed for young children to learn the alphabet in a fun and engaging way. The app provides a vibrant and immersive experience, making the process of learning letters enjoyable and memorable. [GitHub](#)

2D Median Filter for Image Smoothing

This was an assignment. A 2D median filter is a digital image processing technique commonly used for image smoothing or noise reduction. The idea is to replace each pixel in the image with the median value of its neighbouring pixels. [GitHub](#)

Python OXO-Game

The "OXO game," also known as "Tic-Tac-Toe," is a classic two-player game played on a 3x3 grid. The grid is initially empty, and the players take turns marking an empty cell with their respective symbols (usually "X" for one player and "O" for the other). The goal is to create a line of three of your symbols horizontally, vertically, or diagonally. The game ends when one player achieves this goal, or if the entire grid is filled without a winner, resulting in a draw. Tic-Tac-Toe is simple yet strategic, making it a popular and quick game to play. This game is implemented on python 3 with the PYQT5 GUI layout. [GitHub](#)



Certifications

<https://www.hackerrank.com/certificates/e6248ae84fd1>