

Herman Tevilili - CV

Statistician & Full Stack Developer

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Date of Birth: 21 October 1991

Citizenship/Residence: Vanuatu

Professional Summary

With over seven years of combined experience—**more than four years in Vanuatu Government data systems and three years as an IT technician/web developer** in the private sector—I specialise in **statistical analysis, data integration, reporting, and interactive visualisation (R, Python, SQL, Shiny, Tableau, Power BI)**. I have particular expertise in **reproducible report writing using R** (with Quarto and LaTeX for automated, publication-quality PDFs), enabling efficient, transparent, and version-controlled generation of statistical and policy reports. Complementing this, I bring strong **full-stack web development** skills, with particular expertise in React.js single-page applications (SPAs) for responsive, high-standard user-facing front-ends, Laravel and Django as back-ends and PostgreSQL/MySQL/Oracle databases. I have proven ability to architect, design, create, and maintain front-end components using modern UI/UX concepts; develop functional, appealing, interactive, and responsive web applications; ensure technical feasibility across browsers and platforms; optimise for speed and scalability; perform unit/integration testing and debugging; build reusable code/libraries; analyse and refine UI designs to best serve user needs and business goals.

This experience directly aligns with FMIS Section requirements: effective development and customisation of information systems (SmartStream, VBMS, EDRMS, reporting applications, and subsystems); stable, optimised database administration; provision of user-requested reports/queries; and successful local management of new implementations.

Technical Skills

- **Statistics & Data Analysis** — R (Tidyverse, Shiny), SQL queries/ad hoc reporting, probabilistic matching, Census/CRVS data integration, statistical tabulations, machine learning.
- **Full Stack Development** — React.js (single-page applications, responsive UIs), Laravel (back-end, APIs), HTML5/CSS3/JavaScript, CodeIgniter, Drupal/Joomla
- **CMS Expertise** — Drupal, Joomla & Wordpress (website development/management)
- **Databases Development & Administration** — PostgreSQL, MySQL, Oracle, database tuning/optimisation/backups.
- **UI/UX & Visualisation** — High-standard UI/UX concepts, interactive dashboards (highcharter, Leaflet), Tableau, Power BI, third-party integrations
- **Development Practices** — Reusable code/libraries, performance optimisation (speed/scalability), unit/integration testing/debugging, cross-browser/platform compatibility, Agile-like workflows
- **Tools** — Quarto/LaTeX (reproducible reports), Git/RAP workflows, MS Forms/Kobotools, BusinessObjects equivalents

Education

Bachelor's Degree in Economic and Social Administration

Université Toulouse 1 Capitole, France — 2019–2021 (Obtained)

Multidisciplinary program in economics, computer science, and quantitative methods, building skills in programming, statistical analysis, and data-driven government processes.

Bachelor of Mathematics and Computer Science

New Caledonia University, New Caledonia — 2013–2015 (Not Obtained)

Certificate in Machine Learning and GIS for Land Cover Estimation

United Nations ESCAP — 2024

Professional Experience

Statistician - Gender, Justice and Culture

Vanuatu Bureau of Statistics — February 2022 – Present

- Developed **Labour Mobility Schemes Registry (LMR)**¹ as a full-stack application: React.js front-end SPA for dynamic, responsive user interface and Laravel back-end with PostgreSQL database integration for managing and visualising labour mobility data.
- Designed and implemented interactive, responsive dashboards using R Shiny, Tableau, Power BI, highcharter, and Leaflet, focusing on high UI/UX standards, filterable visualisations, and policy-relevant data presentation
- Lead the customization and digitization of 2 Public Service Commission systems surveys - **Institutional Capacity Assessment & Customer Satisfaction survey** using MS Forms, Kobotools for data collection and R, SQL, Quarto, and LaTeX for automating the ICA report writing ².
- Served as a technical committee member for the VBoS - NDMO Disaster Project (Vanuatu Climate & Disaster Management Information System /VCDMIS initiative), acting as the key technical person to oversee drafting of the **Management Information System (MIS)** Terms of Reference (TOR) and the subsequent development/implementation of the MIS by an international firm/consultant team. The system was built using **Django** (back-end), **ReactJS** (responsive front-end SPA), and **PostgreSQL** (database), centralising disaster/climate data for dashboards, decision-making, and national resilience.³
- Develop the **Culture Information Management System** for the Vanuatu Cultural Center with **CodeIgniter** and **MySQL**. The System has been handed over to the Department of Communication and Digital Transformation for hosting.
- Managed all **statistical data requests** from stakeholders for the **2020 National Population and Housing Census (NPHC)**, retrieving and analysing specific datasets using **R** and **SQL** to deliver timely, accurate, and policy-relevant responses.
- Led production of **NPHC Volume 2 Tabulation Report** (New Area Councils, excluding correction factors) by querying the database with **SQL** for data manipulation (CRUD operations) and applying **R** for in-depth statistical analysis, insight extraction, and report generation.
- Led Census and CRVS data integration for MFEM **Cash Transfer** pilot, including probabilistic matching, database linkage between 2020 NPHC data and CRVIS data and ad hoc queries/reporting.
- Built VBoS Drupal website for VBoS (old VNSO Joomla website -> new Drupal VBoS website transition), including front-end updates, UI consistency, and third-party integrations. VBoS executive decided to move back to Joomla due to technical incompetence for dedicated staffs in managing a Drupal site.
- Mentored VBoS staff in R Beginner, intermediate and advanced levels, fostering collaboration and capacity building.
- **Personal Projects**
 - WanWokabaot – POS + Inventory Management System: Developed for small VBoS male staff cooperative shop using Laravel, ReactJS & PostgreSQL ⁴
 - CashFlow - My Personal Finance Management System (open-sourced on GitHub for anyone to use): Developed using Django, ReactJS, PostgreSQL ⁵

Statistician Intern

Vanuatu Bureau of Statistics — June 2021 – August 2021

- Internship Subject / Research Question: How can inferential statistics serve as a valuable asset for the Vanuatu National Statistics Office (VNSO)?
- Internship Report: <https://bit.ly/3zZm4zL>

Value-Added Services & Billing Technician

Telecom Vanuatu Ltd — June 2021 – August 2021

- Administered and configured BusinessObjects (BO) reporting environment integrated with Oracle ERP databases (GPTo system), focusing on the design, development, and scheduling of user-facing financial/marketing/technical reports to meet departmental needs. Developed custom reports with high-standard UI/UX principles (clear layouts, data visualisation, consistent branding), ensuring responsive and intuitive presentation of real-time sales, subscriptions, product/service data, and project progress for accurate decision-making.

¹Developed the Vanuatu Labour Mobility Registry, a secure web platform for VBoS management of seasonal/outbound labour movement records. **Front-end:** React.js 18 + TypeScript SPA via Inertia.js, real-time search/filtering with @tanstack/react-table, reactive CRUD forms, responsive Tailwind CSS UI. **Back-end:** Laravel 11 (Eloquent, auth/security). Database: MySQL. GitHub (public repo): <https://github.com/htevillili-1991/labour-mobility-registry>

²Developed an automated Institutional Capacity Assessment (ICA) report generator for the Vanuatu Public Service Commission (PSC). Built using **Quarto** (for PDF rendering), **R** (dplyr, tidyr, ggplot2, kableExtra for data processing/visualisation), and LaTeX styling. Features include: department-level reports with dynamic parameters, bar plots, priority identification, and recommendations; batch automation script for ministry-organised PDFs; ministry-level comparative report with heatmap and rankings from CSV data. GitHub (private repo): <https://github.com/htevillili-1991/ICA-Report-Template>

³GitHub or detailed repo not public; see launch coverage in SPC newsletter: <https://www.spc.int/uploads/blog/blog-post/2026/01/innovation-for-resilience-vanuatu-pioneers-data-driven-disaster>

⁴Modern POS and inventory web application with React + TypeScript front-end via Inertia.js, Falcon-inspired light/dark theme, Highcharts dashboards, responsive POS/inventory interfaces, low-stock notifications. Back-end powered by Laravel (authentication via Breeze, APIs/routes/controllers), optimised with Laravel Octane + FrankenPHP for ~10x performance improvement. GitHub: <https://github.com/htevillili-1991/wanwokabaot>

⁵Comprehensive personal finance app with envelope budgeting, savings goals, recurring transactions, and interactive reports/charts (Recharts). React.js + TypeScript SPA front-end (Vite, Tailwind CSS, TailAdmin-inspired UI), Django REST Framework back-end (JWT auth, secure APIs), PostgreSQL database. GitHub repo: <https://github.com/htevillili-1991/cashflow>

- Optimised and maintained the ERP data warehouse/reporting systems through regular health checks, fortnightly/monthly database updates (via Putty/secure shell for integrity and timeliness), and performance tuning to ensure fast, scalable query execution and report generation—directly supporting efficient provision of ad hoc and scheduled information.
- Performed thorough testing and debugging of reporting interfaces across browsers/platforms, validating data accuracy, resolving discrepancies, and implementing fixes to maintain system stability and user satisfaction.
- Coordinated with finance, marketing, and technical teams to translate business requirements (new offers, packages, price plans) into system configurations and front-end report updates, participating in the full development lifecycle from analysis to implementation and handover.
- Ensured correct billing for all TVL services by validating processes, reconciling data, and supporting accurate end-of-month/fortnightly billing runs—contributing to reliable user-facing financial outputs and database integrity.

Tutor

Francophone University Agency — 2018-2018

- Tutor for the french “Certificat informatique et internet” (C2i)

IT Technician, Junior Web Developer & Tutor

Computer Network Services — 2013-2015

- First initiation to PHP framework CodeIgniter for web development.
- Developed dynamic website from scratch, database-integrated websites using HTML, CSS, JavaScript, and PHP (this was prior to my knowledge to the existence of Content Management Systems). Progressed to exploring Content Management Systems (CMS) such as WordPress and Joomla.
- Provided IT support
- Built PC from scratch, OS installation, conducted regular system updates, Clone PC, data backup/recovery.

Internships

- BRED Vanuatu Limited - 1 week - 2013
- AHITEC Services - DAEU (Year 14) 1 month internship program - 2010
- SPIM - 3 months internship - 2009

Language Skills

Language	Written Proficiency	Oral Proficiency
English	Fluent	Fluent
French	Proficient	Proficient
Bislama	Moderate	Fluent

Interpersonal Skills and Behavioural Competencies

Analytical, practical, and creative thinker with strong written and oral communication skills. Honest, reliable, and of good character. Proven ability to collaborate effectively with diverse teams in multicultural government environments.

Note: CV built using R Quarto. Source code: <https://github.com/htevilili-1991/cv>.

HTML version: <https://htevilili-1991.github.io/cv-html/>.