BERCLAY MANANI AYORA

berclaym@gmail.com
P.O. Box 12215-00100, Nairobi
+254718808824

Experience

MAYERFELD CONSULTING | Remote

October 2026 **Practicum Participant – Frontend Development.**

Projects: https://github.com/barcs-manani

- Built a responsive frontend site using **ReactJS, NextJS,** and **TailwindCSS**.
- Integrated frontend components with backend APIs – server-only routes – and a PostgreSQL database.
- Integrated payment workflow using **Stripe.**
- Deployed and managed each stage of the application on **cloud platforms** (**GitHub Pages, Vercel,** and **Render**), handling environment configuration and production releases.
- Implemented standardized **version control** using **Git** – the final version is v2.2.0.
- Performed code quality analysis by integrating **SonarQube Cloud** with GitHub.
- Collaborated with my team members in performing **design upgrades** and **performance enhancements**.

NOVA TRIPZOORI | Mombasa

January 2025 – May 2026 **Full-Stack Developer – OTA Tech Dept.**

Platform: https://www.tripzoori.com/

- Develop and maintain **backend services using Python FastAPI** for a production **OTA booking platform**.
- Design and implement **RESTful APIs** integrating **PostgreSQL databases using SQLAlchemy ORM**.
- Build responsive frontend interfaces using **ReactJS and Tailwind CSS**.
- Implement **end-to-end full-stack features**, integrating frontend components with backend APIs.
- Optimize **database queries and API performance** to improve application efficiency.
- Deploy and manage full-stack applications to **cloud platforms** (**Fly.io and Netlify**), handling environment configuration and production releases.
- Collaborate with developers and stakeholders to **deliver new platform features and system improvements**.

- Development and maintenance of the blog WordPress site: https://www.blog.tripzoori.com

SAFARICOM PLC | Nairobi

May 2024 – November 2024 **Intern (Internal Audit) – Automation Dept.**

- Development of automation software using Flask Python framework and SQL (MySQL).
- Development of productivity applications using Microsoft PowerApps in collaboration with Power Automate and SharePoint lists
- Programming continuous audit and continuous monitoring tests using SQL (Oracle) and Python, and using Excel in test results analysis.
- Data Analysis and visualization using Qlik Sense

Skills

TECHNICAL

- **Programming Languages**
  Python, JavaScript, C++, C, Go, Ruby
- **Backend Development**
  FastAPI, Flask, Django, REST API development
- **Frontend Development**
  ReactJS, Tailwind CSS, HTML5, CSS3, Bootstrap
- **Databases**
  PostgreSQL, MySQL, MongoDB, Oracle SQL
- **Tools & Platforms**
  Git, Github Actions, Github Copilot, AWS EC2, Vagrant, Terraform, PowerApps, Power Automate, Qlik Sense, WordPress
- **Engineering & Development Tools**
  MATLAB, KiCAD, Proteus, TIA Portal

ADDITIONAL SKILLS

- **Continuous Learning**
  Actively expanding knowledge in **Data Science, Machine Learning and AI** through platforms such as Udemy and W3Schools.
- **Adaptability & Collaboration**
  Experience working in diverse technical environments including **software development, automation, electrical systems and data analysis**.

Education

UDEMY

Sep 2026 – Nov 2026 **Decoding DevOps – From Basics to Advanced Projects with AI**

- DevOps best development practices and tools: AWS, GitOps, Github Actions, Kubernetes, Ansible, Terraform, Bash Scripting, Docker and ArgoCD
- Using AI for efficiency and risk management in DevOps: ChatGPT and Github Copilot (GCP)

May 2026 – Sep 2026 **CompTIA Security+ (SY0-701)**

- Preparing for the CompTIA Security+ certification exam; studying cybersecurity principles, network defence, risk management, and incident response.

July 2026 – Aug 2026 **Data Structures & Algorithms**

- Solidifying knowledge and practice of Computer Science concepts such as:
  - Data structures: lists, arrays, trees, graphs.
  - Algorithms: recursion, sorting.
  - Dynamic programming
  - Time and space complexity

June 2026 – July 2026 **Software Architecture & Design of Modern Large-Scale Systems**

- Studying software architecture principles, system design, scalability, distributed systems, microservices, cloud-native architectures, performance optimization, reliability, and design trade-offs for large-scale applications.

December 2022 – December 2022 **Introduction to Machine Learning**

- Completed an introductory course on Machine Learning

SKILLSOFT – SAFARICOM PLC & CODECADEMY

July 2024 – August 2024 **Data Analytics Foundations (Track 1 & 2)**

- Exploratory data analysis (EDA) with Python
- Python for Data Science
- Data Visualization with Python

July 2024 – August 2024 **Data Analytics for Associates (101)**

- Basics of Data Analytics

June 2024 – July 2024 **Artificial Intelligence for Associates (101)**

- Basics of AI, ethics and advantages in the workplace

May 2024 – June 2024 **Agile for Associates (101)**

- Incorporating the Agile method of software development in the workplace

W3SCHOOLS

February 2023 – March 2023 **MERN Stack, Full-stack**

- Fully developed two sites using MERN; a front-end site using React and another full-stack site with forum (social platform) structure.

KENYATTA UNIVERSITY

September 2017 – July 2023 **B.Sc. Electrical and Electronics Engineering**

Second Class Honors (Lower Division)

- Core areas: **electrical systems, electronics, wireless communication, and embedded systems**.
- Technical exposure to **C/C++ programming, MATLAB, PCB design (KiCAD, Proteus)**.
- Member of **IEEE student community**, participating in technical workshops and innovation programs.

ZALEGO INSTITUTE OF TECHNOLOGY AND INNOVATION

March 2017 - July 2017 **Certificate – Windows, Android, Web Design using HTML, CSS and PHP**

- Building websites from scratch based on assignments and lectures, using PHP, JavaScript, HTML, CSS and Bootstrap.
- More projects done in other languages can be found on my GitHub page, https://github.com/barcs-manani

Certificates

All my certificates can be accessed from Google Drive using the links below for verification:

- Agile, Safaricom - https://drive.google.com/file/d/17mWjfW9KzCcjm2wmnIOBXoYiTY6Vk7Qq/view?usp=sharing
- Data Analytics for Associates, Safaricom - https://drive.google.com/file/d/19HbjzgU_fGtPCeMevSqlqeV4dC1SFSlx/view?usp=sharing

- Degree Certificate, Kenyatta University - https://drive.google.com/file/d/1GMV8OLHLi6qjqaPdue3j3R2eBfI2EtUW/view?usp=sharing
- KCSE Certificate, Moi High School Kabarak - https://drive.google.com/file/d/1ABZEKEWTq0ck82wMiveagydrySq80tMS/view?usp=sharing
- Software Architecture & Design of Modern Large-scale Systems - https://drive.google.com/file/d/1EBuivOujtFsWbZzNUTAQgXltYv_XcFuZ/view?usp=sharing