Jeremy Mumia

👤 Profile

Multidisciplinary Computer Scientist with a strong foundation in software development, system automation, and algorithmic modeling. Adept in JavaScript and modern full-stack technologies, with additional experience in AI/ML, DevOps, CAD design, and digital branding. I adopt a 'builds anything' philosophy whether it's a website, trading system, electronic circuit, medical record system, or a creative design solution. I thrive at the intersection of tech, design, and strategy, delivering practical innovations across sectors.

💼 Employment History

Software Developer at Bethany Dental and Maxillofacial Center
January 2021 — Present

Built and deployed a full-stack Electronic Health Record System using PHP (Laravel), JavaScript, and SQL. Migrated patient data from physical files into a digital database system. Offered ongoing technical support and system maintenance.

Made a photo OCR workflow for automatically adding patient information to database from barely legible physical documents.

Overhauled the initial Electronic Health Record System with a faster more function-centric design using better tooling. (Bun, React).

Tech Support / Trading Educator at Fusion Forex
January 2022 — Present

Developed content and maintained a Learning Management System for financial market training. Facilitated training sessions for FX traders on market operations and technical strategies. Managed webinar sessions and online content delivery.

IT Support & Audit Intern at Gertrude's Children's Hospital
July 2024 — September 2025

Provided IT and tech support for hospital infrastructure. Assisted in digital systems auditing and workflow assessments as part of internal audit. Contributed to data inventorying and mapping processes under compliance protocols.

Tech Support at Pulpy Adventures
January 2020 — January 2021

Monitored fleet movement via GPS systems. Coordinated dispatch and delivery schedules with on-ground teams.

Freelance Developer / Creative Technologist
Present

Built and deployed various websites, ERPs, dashboards, and custom APIs for SMEs. Designed marketing material including posters, banners,

Details

Nairobi
Kenya
708176114
fractal_solutions@protonmail.com

Date of birth
15/05/1996

Links
GitHub

Skills

JavaScript/TypeScript

Node.js

React/Next.js

Go

Python

C/C++

Full Stack Development

API Integration

Workflow Automation

Deep Learning

Reinforcement Learning (DQN, PPO)

TensorFlow

Data Analysis

Git

Docker

Linux

Firebase

PostgreSQL

and digital branding content. Designed CAD models for electronics and mechanical parts and prototyped electronics projects.

🎓 Education

KCSE, Maranda High School
February 2010 — November 2013

Scored 83: A

Web Development, eMobilis Technology Institute
May 2014

BSc. Computer Science, University of Nairobi
January 2020 — January 2025

★ Projects

Workflow Automation Library
https://github.com/fractal-solutions/qflow

XGBoost ML Library (NPM)
https://github.com/fractal-solutions/xgboost-js

Reinforcement Learning Library with Cartpole Demo (NPM)
Library: https://github.com/fractal-solutions/fractal-RL

Cartpole PPO Demo: https://fractal-solutions.github.io/fractal-RL/

Command Line Interface Coding Assistant
https://github.com/fractal-solutions/qli

Miscellaneous
Stock Simulator: https://fractal-solutions.github.io/stock-sim/

Flight Simulator Game: https://github.com/fractal-solutions/XBF-1

📢 References

Dr Tom Osundwa from Bethany Dental and Maxillofacial Center
osundwa69@gmail.com · +254724703678

Uri Gakuru from Gertrude's Children's Hospital
ugakuru@gerties.org · +254708318239

Jeffrey Githua from Fusion Forex
jeffkamau61@gmail.com · +254729491832

MongoDB

SQLite

Electronic Record Systems(ERS)

Learning Management Systems (LMS)

Custom Dashboards

Figma

Canva

Photoshop

CAD (AutoCAD/SolidWorks)

Algorithmic Trading

CAD Modeling

Circuit Design

Branding

Video Production