

BRIAN RICHARD

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Software and AI solutions developer

I am a results-oriented software developer and AI solutions developer skilled in building full-stack web applications, AI automation agents, developing intelligent models, and integrating AI into scalable solutions. I am proficient in Python, JavaScript, React, Node.js APIs, and various database technologies, with a keen interest in cloud computing and AI-driven innovations.

WORK EXPERIENCE

Udemy

Python Development

Jan 2024 - Jan 2025

- Completed Complete Python Bootcamp and 100 Days of Python courses covering data science, automation, API integration, game development, and Flask web applications.
- Built projects demonstrating strong problem-solving, OOP principles, and data manipulation skills.

Udemy

Full-Stack Web Development

Jan 2024 - Jan 2025

- Gained hands-on experience in HTML, CSS, JavaScript, React, and backend integration, creating responsive and dynamic web applications.
- Developed multiple full-stack projects emphasizing clean, scalable code.

Power Learn Project

AI for Software Engineering

Jan 2025 - Present

- Studied AI concepts and their integration into software development workflows.
- Applied machine learning techniques to create intelligent, data-driven solutions.

IBM SkillsBuild

Cloud Computing Fundamentals

Jan 2025 - Present

- Learned core concepts of cloud architecture, deployment models, and service types (IaaS, PaaS, SaaS).
- Gained foundational skills for implementing and deploying cloud-based applications.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Bachelor of Science in Mathematics and Computer Science

Sep 2023

SKILLS

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|--|--|--|
| ● Programming & Development | ● Python | ● Java |
| ● C | ● HTML/CSS | ● SQL |
| ● Node.js | ● React | ● Flask |
| ● Django | ● Tkinter | ● XGBoost |
| ● Pandas | ● NumPy | ● Matplotlib |
| ● Software Engineering & Data | ● Full-stack web development (front-end & backend) | ● Machine learning model design |
| ● training | ● and deployment | ● API integration and automation workflows |
| ● Object-Oriented Programming (OOP) principles | ● Cloud & Tools | ● Cloud Computing Fundamentals (IBM SkillsBuild) |
| ● Git/GitHub | ● VS Code | ● Jupyter Notebook |
| ● Postman | ● n8n Automation | ● Figma |
| ● Full-stack web development | ● API integration | ● Automation workflows |
| ● Cloud Computing Fundamentals | ● MySQL | ● PostgreSQL |
| ● Google Cloud | ● IBM Cloud | ● Power Learn Project Platform |

- ClickUp
- React Dev Tools

- BeautifulSoup

- Selenium WebDriver

PROJECTS

FarmHive Crop Recommendation System

Developed and trained a machine learning model (XGBoost achieved 99.7% accuracy) to recommend optimal crops based on soil and environmental data. Built a user-friendly interface for seamless farmer interaction and predictions.

Full-Stack Portfolio Website

Designed and deployed a responsive personal portfolio showcasing projects, skills, and contact features using React, JavaScript, and backend integration.

AI-Powered Personal Health Assistant

Created an intelligent assistant capable of tracking health inputs, predicting potential risks, and providing basic recommendations using AI and machine learning models.

Salary Predictor App

Trained a predictive model (98% accuracy) to estimate salaries based on job roles and key market factors, delivering real-time insights through a clean web interface.

Social Media Automation Agent

An intelligent agent that automates caption writing, image generation, and scheduled posting across social media platforms. Enhances online presence by up to 40%, reduces social media management costs by up to 60%, and boosts content output and engagement by up to 35% all without manual effort.

MailBrain AI Email Automation Agent

Processes Gmail history and listens to new incoming emails in real time, extracting key information and organizing it into a structured database for quick retrieval and decision-making. Cuts email processing time by up to 70%, reduces operational workload by up to 55%, and improves organizational efficiency by up to 45% through automated classification and smart insights.

AWARDS & RECOGNITIONS

University of Nairobi

2nd Best, Tecno Innovation Competition

Feb 2025

JKUAT

2nd Runners-Up, JHub Africa Hackathon

Feb 2025

INTERESTS

- Artificial Intelligence
- Software Development
- Automation
- Machine Learning
- Data Science
- Hackathons & Tech Competitions
- Cloud Computing
- Financial Mathematics