

BRAMWEL AGINA

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SOFTWARE ENGINEER & AI/ML DEVELOPER



Complete Portfolio - <https://bramwelagina.netlify.app/>

Showcasing 15+ projects in mobile apps, web platforms, AI/ML solutions, and published research.

SUMMARY

Software Engineer with 3+ years of experience crafting high-performance mobile apps, full-stack platforms, and AI-powered solutions. Proven track record in Android/iOS development, cross-platform Flutter applications, and machine learning implementations. Specialized in creating seamless user experiences with modern technologies including React.js, Node.js, TensorFlow, and scikit-learn. Award-winning developer with published research in AI consciousness and innovative tech solutions.

PROFESSIONAL EXPERIENCE

Full-Stack Web Developer

Allotmeal AfroC Platform

2023 - Present

Led redesign and development of allotmealafroc.netlify.app connecting 1000+ hotels, businesses, and stakeholders through listings, networking, and payment services. Built with Next.js, MongoDB, and Netlify, processing thousands of bookings.

Mobile App Developer

SCHACCS & Educational Institutions

2022 - Present

Developed parent-student portal with 10,000+ downloads featuring fee overview, academic results, attendance tracking, and event notifications. Built using Flutter, Firebase, and SQLite for cross-platform compatibility.

Android/iOS Developer

Various Clients

2022 - Present

Developed cross-platform mobile applications integrating RESTful APIs and optimized UI/UX workflows. Built secure SACCO app processing \$2M+ in transactions with zero security incidents using Java (Android) and Swift (iOS).

CRM Web Developer

Multiple Organizations

2022 - Present

Built secure, responsive CRM modules using PHP, Laravel, and MySQL. Collaborated in Agile teams to deliver client requirements on schedule, improving operational efficiency by 60%.

KEY PROJECTS

Afrilink - African Professional Network

Full-Stack Development

2024

Revolutionary networking platform for African professionals with job matching, skill development, and business connections. Features advanced algorithms for professional matching and skill assessment.

AI Human Text Detector

Machine Learning

2024

Developed mobile and web AI detector using custom BERT model trained on thousands of Kaggle datasets. Achieves high accuracy in distinguishing AI-generated from human-written content with percentage likelihood scoring.

Telemedicine Platform

Healthcare Technology

2024

Comprehensive telemedicine solution with video consultations, appointment scheduling, secure patient records, and prescription management. Improved healthcare efficiency by 60% with elegant UI/UX design.

AI Health Coach Application

AI/ML Development

2024

AI-powered health app using React.js and Python Flask providing personalized workout plans, nutritional advice, sleep tracking, and stress management with 95% accuracy in health marker detection.

EDUCATION

Bachelor of Science in Computer Science

Gretsa University, Thika, Kenya

Sep 2019 - Sep 2024

Second Class Upper Division

TECHNICAL SKILLS

Mobile Development

- Android (Java/Kotlin)
- iOS (Swift)
- Flutter & Dart
- React Native
- Firebase & SQLite

Web Development

- React.js & Next.js
- Node.js & Express
- PHP & Laravel
- HTML5/CSS3/JavaScript
- MongoDB & MySQL

AI/ML & Data Science

- TensorFlow & PyTorch
- scikit-learn & Pandas
- BERT & NLP
- Computer Vision
- Statistical Modeling

Tools & Platforms

- Git & GitHub
- Docker & Cloud Services
- Figma & Adobe XD
- Agile/Scrum
- API Integration

AWARDS & RECOGNITION

1st Place - 2024 Country Annual App Development Contest

Gretsa University - Innovative mobile application

2nd Place - 2023 Country Annual App Development Contest

National Competition - AI-integrated solution

1st Place - Busia Web Development Contest

Regional Competition - Outstanding web project

RESEARCH PUBLICATIONS

Baby-Like AI System (BLAIS)

Published on Academia - AI consciousness through associative learning

Hybrid Census Technology Solution

Published on Academia - 96-98% coverage, 90% cost reduction

Electromagnetic Wave Olfactory Device

Published on Academia - Theoretical smell simulation research

LANGUAGES

English: Native

Italian: Conversational

Kiswahili: Native