

# EMEKA “ETHAN” NWANKWO, BTECH, MTEI

## SENIOR SOFTWARE ENGINEER • AI & MACHINE LEARNING ENGINEER

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### PROFILE SUMMARY & ACCOMPLISHMENTS

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I am an experienced Full-stack Senior Software Engineer and Artificial intelligence (AI) and Machine Learning (ML) Engineer. My expertise lies in building products that support startups, blockchain, and real estate firms, and in AI-driven data analysis for businesses. With my contributions, I have successfully driven revenue growth to \$65M+ and facilitated real estate transactions worth \$1B+. I have also published technical articles that have impacted the lives of over 25K software engineers globally.

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### KEY PROJECTS

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**AI/ML Data Analysis Platform.** (*links available on request*)

**Tech. Stack:** Shiny, React, R, Python (FastAPI)

**Role:** Lead Software Engineer

Products within the platform include:

- Neighborhood Explorer
- Crime Analysis Dashboard
- Housing Dashboard

**Homie Inc.** (*homie.com*)

**Tech. Stack:** Vue.js, Python, C#

**Role:** Senior Full-Stack Engineer

**Kweeqpay** (*kweeq.com*)

**Tech. Stack:** React, Java Spring Boot

**Role:** Full-Stack Developer

**Bitaccess Inc.** (*bitaccess.com*)

**Tech. Stack:** React, Nodejs

**Role:** Senior Frontend Engineer

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## WORK EXPERIENCE

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**AI & ML RESEARCHER**, *Saint Mary's University*, Halifax, NS Canada 2024 - Present

*Building advanced machine learning and artificial intelligence applications to facilitate decision-making in housing, real estate, finance, health, and socioeconomic sectors.*

- Applied advanced AI and ML techniques to develop predictive models that improve decision-making in the real estate sector.
- Developed an interactive platform for data analysis and visualization, integrating AI models with a user-friendly UI.
- Leveraged core software engineering skills to build models that analyze and forecast housing trends, property valuations, and market dynamics, for the real estate industry.
- Built a real estate tool to analyze neighborhood metrics and a dashboard to map crime trends, providing a data-driven approach to urban safety.
- Utilized RESTful APIs for smooth UI and backend integration and user management.
- Integrated Github actions CI/CD for consistent deployment and platform updates.

**FULLSTACK SOFTWARE ENGINEER**, *Kweeq Technologies Inc.*, Halifax, NS Canada 2024

*Financial technology platform providing escrow payment processing solutions.*

- Designed and developed the Kweeqpay platform to streamline payment processing for businesses, offering seamless integration with various payment methods and APIs.
- Designed and implemented GraphQL APIs for frontend/backend interactions.
- Collaborated with cross-functional teams to build scalable services and maintain an efficient front-end interface using modern web technologies.

**SENIOR SOFTWARE ENGINEER**, *Homie Inc.*, Salt Lake City, Utah, USA 2017 - 2023

*Real estate brokerage that facilitates the buying and selling of homes across multiple states in the US*

- Developed a responsive web interface and backend for real estate listings, improving listing speed and client engagement.
- Integrated RESTful APIs to enable smooth frontend-backend communication.
- Designed and managed web platforms used by listing agents, coordinators, buyers, and sellers.
- Built and maintained an internal tools platform for listing coordinators to easily manage listing operations.
- Built and maintained Chrome plugin to facilitate listing synchronization with the Multiple Listing Service (MLS).
- Established CI/CD pipelines using Github actions, teamcity and Octopus for automated testing and deployment, enhancing productivity and reducing release times.
- Implemented unit and integration tests to uphold code quality.

**SENIOR FRONTEND SOFTWARE ENGINEER**, Bitaccess Inc., Ottawa, ON

2022

*A blockchain company that facilitates blockchain transactions for individual and enterprise clients.*

- Developed blockchain wallet solutions and an onboarding process that significantly boosted platform adoption, contributing to the company's acquisition.
- Worked on frontend-backend integration to optimize user experience and platform performance.
- Managed front-end software platforms and services, facilitating successful company acquisition.

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## EDUCATION

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**Master of Technology Entrepreneurship & Innovation**

2024

Saint Mary's University, Halifax, NS Canada

**Bachelor of Technology, Mathematics**

2014

Federal University of Technology, Owerri, Nigeria

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## TECHNICAL SKILLS

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JavaScript (React & Vue) • Blockchain (Solidity) • Web3 • Data Analysis • PostgreSQL/MongoDB

Git/GitHub • Python • R • Devops (GCP & Digital Ocean) • Neural Networks • Random Forest

**References available upon request**