

ericnyato1@gmail.com +82 10 7900 6086

Eric Joshua Nyato

Frontend-Blockchain Developer

Personal information

Name Eric Joshua Nyato
Date of Birth 04th July 1997

Nationality Tanzania

Portfolio ericjoshua-myportfolio.netlify.app/

Education

Chung-Ang University

Seoul, South Korea

Sep 2022 - Jul 2024

Wuhan University of Technology

Wuhan, China Sep 2016 - Jul 2020 Master of Civil engineering,

Construction Project management

Grade: 4.3/4.5GPA

Bachelor of Civil engineering

Grade: 3.35/4 GPA

Skills

Programming Languages

JavaScript, TypeScript, HTML5/CSS3, Solidity

Frontend development

React, Tailwind, ChakraUI

Blockchain development

Web3.js, Ethereum, Polygon, ZoKrates(ZKP toolbox), Remix IDE, Hardhat

Others

Git, Linux, Vite, VS Code

Language skills

Swahili Native speaker

English Fluent / TOEIC 885

Korean TOPIK 4

Chinese HSK Level 4 (Chinese Proficiency Exam-2019)

Experience

Construction innovation technology Lab (ContiLab)

Chung-Ang University, Seoul Sep 2022 - Present

http://en.contilab.co.kr/our-team/

Researcher: Focuses on advancing construction project management through emerging technologies such as AI, Blockchain, VR/AR, BIM, IoT etc.

 My research focuses on integrating blockchain technology into construction safety, training and management processes.

Yooshin Engineering Co. Dar es salaam, Tanzania

Jan 2021 - July 2021

Graduate Engineer Trainee: New Selander Bridge project in Tanzania, managed by GS Engineering & Construction and Yooshin Engineering Corp. as the consultant

 Site Supervision · Quality & Safety control · Construction Planning

Projects

zk-NMRs

Zero-knowledge nearmiss reporting system (zk-NMRs))

https://inmrs.netlify.app/login

I developed a decentralized web application (DApp) using blockchain and zero-knowledge proof technology to ensure construction site workers' anonymity when reporting near-misses and accidents during projects.

- Implemented smart contracts using Solidity to define backend logic and conducted extensive testing and simulation of the smart contracts in the Remix IDE to validate functionality and performance.
- Integrated zero-knowledge proof technology using the ZoKrates toolbox to allow anonymous identity verification.
- Connected the backend to the frontend using Web3.js, to facilitate blockchain interactions, and used React.js for building a responsive user interface.
- Incorporated the (IPFS) to achieve decentralized storage with no reliance of centralized servers.

Game-Corner

Game ratings responsive Web application

game-corner-five.vercel.app

I developed a responsive website for a comprehensive game rating platform, emphasizing smooth sorting and filtering capabilities across all device sizes. This project combined modern design principles with latest development technologies to ensure a seamless user experience.

- Using Typescript and React, i built an efficient and responsive website.
- I implemented Chakra UI library for building React components that are responsive with easy theming and style adjustments.

Portfolio

My Portfolio

ericjoshua-myportfolio.netlify.app

I designed and developed my portfolio website, prioritizing a user-friendly UI/UX design by utilizing modern design principles and technologies to create a visually appealing layout that adjusts seamlessly across various devices with interactive elements and animations to showcase my technical skills.

- Using Javascript and React, to build an efficient and responsive website.
- I implemented Tailwaind as a CSS framework for easy theming and style adjustments.

Academic achievement

Global Korean Scholarship (GKS)

2021 recipient

Awarded a prestigious full academic scholarship for international students funded and managed by the NIIED a branch of the Ministry of Education in South Korea.

Journal Paper

First author (under-review)

Tittle - Integrated zero-knowledge proof and blockchain system for privacy-preserving near-miss reporting in construction projects

• Automation in Construction (Journal)

Conference Paper

First author (To be published)

Tittle - A Conceptual Blockchain and Token-Incentive Approach for Near Miss Reporting in Construction

• International Conference on Construction Engineering and Project Management - ICCEPM, 2024

Conference Paper

Co-author (To be published)

Tittle - Understanding the Role of Inter-Individual Variability in Fatigue Monitoring of Construction Workers

• International Conference on Construction Engineering and Project Management - ICCEPM, 2024

Excellent Graduate

2nd Prize

Awarded Excellent Graduate Certificate for finishing second in class during Bachelor's degree in Civil Engineering