# Brian Gacheru

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www.github.com/gachez

**Education**

**Nairobi, Kenya University of Nairobi**

* **Major:** Computer Science, BSc
* **Certificate(Minor):** Software Engineering
* **Coursework:** Data structures and algorithms, Distributed systems, Operating systems, Web App programming, Artificial Intelligence and Machine learning

**Employment**

**Full Stack Software Engineer Posh IT Ltd July 2021 - Present**

Student Information Management System, Morendat Insitute of Oil and Gas

* Implemented the Grades and transcript management module for the system to allow for users to assign grades and download results.
* Integrated class scheduling and lesson allocation by implementing the backend API for the timetabling module.
* Improved the system’s ability to scale independently by designing and implementing a robust micro services architecture for the back-end.
* Leveraged Knowledge in Full stack web development, Git, React, NodeJs, Typescript, bash, debugging tools , Database normalization

**IT Technical Assistant Datasec Ltd Jan 2020 - April 2021**

* Improved the sales team ability to track and follow up with leads by implementing a web based task management dashboard using React and NodeJs.
* Implemented landing pages and phishing emails with instruction from cyber security engineers to allow for successful penetration testing and Red team assessments.
* Designed and implemented the company’s informational website as well as set up a blogging system.
* Leveraged knowledge in Git, responsive web design, HTML email design, PHP, SQL, React, NodeJs

**IT Technical Assistant Bloomsfield School Jan - Dec 2019**

* Improved student data retrieval by implementing a web based student information management system that allows for storage and retrieval of important student data.
* Improved communication with parents and stakeholders by implementing an email and SMS web service that allows for sending individual as well as bulk messages.
* Implemented an informational website to allow for online visibility and engagement with potential customers.
* Leveraged knowledge in responsive web design and development, Reactjs, Nodejs, MongoDB, Typescript, Git

**Software Projects**

**Auditpap App**

* Developed an android application using react native that allows users to easily record and track their daily spending.
* Designed a RESTful back-end server that enables user data to be stored in an online database.
* Integrated push notifications to remind users to record their transactions at the end of the day.
* Integrated react-native-calendars library to enable users to visualize all the days they have recorded transactions.
* Utilized: react-native, MongoDB, Express, NodeJs, cron jobs, firebase authentication.

**School Management Software**

* Developed a web application using the MERN stack that allows users to manage student information for their school.
* Integrated bulk SMS and email functionality to allow users to broadcast messages to students and stakeholders.
* Implemented leaving letter generation for users to quickly generate recommendation letters for students leaving their school.
* Integrated the national schools database to allow for easy registration of student data to the Kenyan national government website(NEMIS) through my software using web scraping technologies.
* Utilized: React, MongoDB, Express, Nodejs, Puppeteer js

**NFT Recommendation Software**

* Developed a google chrome plugin that recommends NFTs when on an NFT website.
* Designed a RESTful backend server that enables user data to be stored in an online database.
* Inspired from struggling with finding profitable NFTs to buy and sell by traders.
* Utilized: Nodejs, Express, Puppeteerjs, SQL

**Skills**

**Software:(proficient):** Javascript, NodeJs, Typescript, Python, Git, Unix, SQL, HTLM/CSS, Rust