

# Emmanuel Bamgbala

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## *Software Engineer*

### PROFILE

Analytical software engineer with 4+ years of experience delivering digital solutions across engineering, data, and automation environments. Strong background in Python development, Power Platform, dashboard reporting, workflow automation, and structured data systems. Experienced translating business and technical requirements into scalable tools that improve efficiency, reporting, and operational visibility.

### Experience

#### GetFlow – Contributions Management Platform

- Built a web platform enabling organisations to manage contributions, payments, and internal reporting.
- Developed secure admin dashboard with role-based access controls and protected routes.
- Implemented filtering, contribution summaries, and responsive reporting tables.
- Deployed live production environment under custom domain.
- Tools: React, Next.js, TypeScript, JavaScript, SQL, Supabase

#### UK Homelessness Support Data Pipeline

- Built scalable Python data pipeline aggregating homelessness support services from public sources.
- Developed automated web scrapers and standardised fragmented data into structured outputs.
- Created reusable schemas for contacts, locations, and service information.
- Designed modular architecture for onboarding future providers.
- Tools: Python, BeautifulSoup, Requests, JSON, Git

#### Self-Hosted Remote Development Environment

- Designed browser-accessible development environment hosted on personal hardware.
- Configured WSL Ubuntu environment and deployed code-server for remote coding access.
- Secured public access using Cloudflare Tunnel and custom domain routing.
- Automated startup and service recovery processes.
- Tools: Linux, WSL, Bash, Cloudflare, YAML

#### Opportunity DecisionAI

- Built MVP recommendation platform helping users identify career and income opportunities.
- Designed onboarding questionnaire and ranking engine based on user inputs.
- Developed dashboard and recommendation interfaces.
- Prepared backend structure for future AI integrations and data expansion.
- Tools: React, Next.js, TypeScript, JavaScript, SQL, Tailwind CSS

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### Power apps – RightFirstTimeApp

- Created a dashboard using power apps to properly store data more efficiently. Designed user interfaces, created custom forms, add workflows, and integrated with other Microsoft services to extend the functionality of your apps such as power automate.

### Power Automate

- Creating automated requests to be sent to managers or employees. By connecting to a wide range of data sources, including databases, spreadsheets, cloud services such as excel

### Power BI

- created interactive reports and dashboards using various chart types, maps, tables, and custom visuals, then drill down into data to uncover insights and identify trends.

### Power BI Timesheet Dashboard

- Updated and reconnected Power BI report to a new Excel/SharePoint data source
- **Troubleshoot and resolved data source issues including:**
  - Broken links to old SharePoint URLs
  - Missing worksheet references
  - Permission/authentication errors
- **Cleaned and transformed data in Power Query, including:**
  - Removing unnecessary header/metadata rows
  - Correcting column structures and headers
  - Fixing date inconsistencies caused by locale differences (UK vs US formats)
- **Identified and explained data limitations (e.g. dataset only contained “Not Submitted” records)** and adjusted reporting approach accordingly
- **Rebuilt report visuals to align with available data:**
  - Created a bar chart showing non-submissions by supervisor
  - Built an interactive table that dynamically filters employees based on selected supervisor
  - Designed a matrix view grouping employees under each supervisor for structured visibility
- **Improved dashboard usability by:**
  - Replacing inefficient tooltip/drill through approaches with better UX design
  - Implementing visual interactions between charts and tables
  - Structuring the report for clear, actionable insights for managers

### Core Skills

Python  
SQL  
JavaScript  
TypeScript  
React  
Next.js  
Data Modelling  
Dashboard Reporting  
Power BI  
Power Apps

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Power Automate

Process Automation

Systems Integration

Cloud Infrastructure

Linux / WSL

Stakeholder Communication

Problem Solving

Git