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**LANGUAGES AND TECHNOLOGIES**

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- Languages: Active - JavaScript/TypeScript, Rust. Past - Java
- Tools/Frameworks/Libraries: React, Tailwind, NextJS, NodeJS, ExpressJS, MongoDB, Git, Github
- DevOps: Github Actions
- Infra: Aws (EC2), Docker, Railway

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**EMPLOYMENT**

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<b>Full Stack Software Developer</b>	<b>ZinZen</b>	<b>Aug 2022 - Present</b>
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Responsible for building and maintaining the Rust back end for Dutch startup  
(<https://github.com/tijlleenders/ZinZen-scheduler>)

- Built the back end of the life planner app in Rust. Enables users to enter goals with fuzzy time constraints like “read 1hr daily after 7 and before 10” and calculates a schedule with specific start and end times based on the provided constraints
- Optimized the team’s CI by writing a bash script that checks for new build artifacts in the back end repo (generated by GH Actions) and creates a pull request on the front end repo containing the new build. The script uses jq to parse GH json data
- Refactored codebase for improved maintainability and readability
- Reduced frequency of bugs by including Rust integration tests in CI
- Improved functionality of front end by fixing bugs and adding a helper module (TypeScript) that filters tasks received from the back end by start date

<b>Founder</b>	<b>Bletchley Park Ltd.</b>	<b>Jan 2021 - July 2022</b>
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- Started a startup whose mission was to apply technology to address problems unique to Africa
- Acquired very valuable experience in managing products from initial concept to market. This included ideation, preparation of concept notes, wireframing, UX/UI design, programming, testing, debugging, and deploying to production
- Products launched included:
  - Power-map.io (2022): [www.power-map.io](http://www.power-map.io) Real-time heat map of power outage complaints in Kenya that pulls data from the Twitter API. Front end: React/Tailwind deployed to Vercel. Back end: Node/Express, MongoDB, Rust (wasm) deployed to Railway
  - Flux mobile app (2021). Social network app that acts as an interactive community noticeboard where members can create posts about issues affecting the neighborhood and comment on posts. Native Android, Java, Firebase
  - Albatross mobile app (2021). Barcode tracking mobile application that helps small businesses keep track of inventory. Native Android, Java, Firebase

<b>In-charge of Asset Management</b>	<b>Enke Management Ltd.</b>	<b>June 2017 - Dec 2020</b>
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- Management role where I spearheaded a project to collect data on 11,000 fixed assets and import the data into third party fixed asset management software ([www.waspcbarcode.com](http://www.waspcbarcode.com)). Supervised a team of four
- Was successful in balancing this full-time role while pursuing my Bachelor’s degree
- Developed an Android application that scanned asset barcode tags using the phone’s camera and generated excel reports of inventory movement
- Optimized business processes by preparing a detailed “Fixed Asset Management Policies and Procedures” manual. Also designed and delivered a training workshop for staff

## EDUCATION

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**Nairobi, Kenya**

**Kenyatta University**

**Jan 2017 - July 2022**

- Bachelor of Information Technology, Second Class Honors Upper Division
  - Coursework: Data Structures and Algorithms, System Analysis and Design, Computer Architecture, Information Technology Business Planning, Networking

## PERSONAL PROJECTS

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- **Personal website:** [www.ericgithinji.com](http://www.ericgithinji.com)
- **Pingu (2022):** <https://github.com/egithinji/pingu> A playground for implementing network utilities (like ping) and protocols in Rust