

Eusebius NGEMERA
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Summary

As a **Senior/Lead Software Engineer** with seven years of experience and a Master's degree from **Imperial College London**, I have worked in both large corporations and small, fast startups. My expertise lies in **FinTech**, specialising in payment systems as well as **high-performance, event-driven applications**. I bring value through technical leadership, championing code quality, and fostering knowledge-sharing. I'm finishing my sabbatical and excited to start a new challenge soon.

Major skills:

Backend	<ul style="list-style-type: none">• Go (2 years; most recent)• C++ (4 years)	<ul style="list-style-type: none">• Python (3 years)
Frontend	<ul style="list-style-type: none">• React• TypeScript	<ul style="list-style-type: none">• JavaScript
Data	<ul style="list-style-type: none">• PostgreSQL• Redis	<ul style="list-style-type: none">• HashiCorp Vault• Kafka
DevOps	<ul style="list-style-type: none">• Terraform• GCP• Kubernetes	<ul style="list-style-type: none">• AWS• Docker

Work Experience

Senior Backend Engineer (Go) — NALA (FinTech startup), Full Remote *Feb 2022–Apr 2024 (2y 3m)*

- Golang, **PostgreSQL**, **gRPC**, **React**, HashiCorp **Vault**, **Kafka**, **Redis**, **Terraform**, **AWS ECS**.
- Cross-border payments via a mobile app, a public web app and an internal web app.
- 3rd backend engineer to join (including the CTO) so dealt with a vast range of tasks autonomously.
- Achievements include designing & **implementing peer-to-peer payments** between NALA users, with an event-driven architecture.
- Resolved issues in the US card payment flow, improving the success rate.
- **Interviewed** senior backend engineer candidates.

Amadeus, Nice Area, France

Oct 2017–Jan 2022 (4y 4m)

- **Technical-Lead Backend Engineer (C++)** *2019–2022*
 - Co-Tech Lead on a C++ app (Flight Search Orchestrator) with 20 developers and over 4,000 Transactions Per Second (TPS).
 - Successfully migrated features from Java to C++ with big **performance** improvements.
 - Made **Python** & **Bash** scripts for code generation & release validation to ensure reliability.
 - Initiated & **organised** 4 department **technical hackathons** which reduced CPU usage by 70%!
- **Backend Engineer (C++)** *2017–2019*
 - Co-responsible for **mission-critical** microservices used by most applications in the company and with an average of 65,000 TPS in Production.
 - Improved buffer management which on average reduced latency by 7%.
 - Added OAuth 2.0. Generalised the **architecture** focused on SOAP-XML to allow REST-JSON.

Full-Stack Developer (Python & React) — YesWeStock (**early startup**), London *Jul-Sep 2016 (3m)*

- **DevOps** on a **Python Flask** app with **PostgreSQL** database & **React** frontend on **AWS**.
- As the only backend developer, I added social login & a review system, increasing the user signup rate by 20%.

Projects

eusebius.tech/projects

Sabbatical

Apr 2024–present

- *Concurrent Counter* – **Node.js** TypeScript with **NestJS**, **Kubernetes** on **GCP** (GKE), **WebSockets**
- Trained for & climbed Mt Kilimanjaro (5,895m)
- Church – improving visual media & training the projection team

Web scraper for stocks — **Python**, BeautifulSoup, Pandas

May 2022

My Investing Journey — personal finance blog

May 2021–present

Instagram Lists — guided hack to help clean up accounts you follow

Nov-Dec 2020

- A client-side **JavaScript** tool to display sortable lists of data from Instagram's unofficial Graph APIs.
- Accompanied by a blog article on how the tool was built and the challenges faced along the way.

Education

MEng Electrical & Electronic Engineering, Imperial College London, UK — **2:1**

2013–2017

- Highlight modules: Algorithms & Data Structures [93%], High-Performance Computing for Engineers (with AWS **GPUs**), Advanced Computer Architecture, Strategic Management (IC Business School).
- **Final-Year Individual Project** [70%]: “Fused Arithmetic Analysis for Efficient Hardware Datapath” involved building upon the open-source **Python** project “Structural Optimisation of Arithmetic Programs”.

A-Levels, Herschel Grammar School, Slough, UK — **A*AAA**

2011–2013

- Mathematics [A*], Further Maths, Physics and Chemistry.

Awards

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- 2013–2017 IET Diamond Jubilee **Scholarship**, awarded to less than 400 UK engineering students.
 - Gold in the 2011 UK Senior **Mathematical Challenge**; advanced to the Olympiad of 1,000 students.

Languages

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- English (native), French (professional working proficiency), Swahili (native)

References

[LinkedIn recommendations](#)

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- “Eusebius is a top-notch senior backend engineer with a meticulous eye for detail. His ability to translate complex requirements into efficient solutions is impressive. Eusebius's strong opinions on clear naming conventions have demonstrably improved code readability and team efficiency. He's also a collaborative team player who fosters a positive learning environment. I highly recommend Eusebius for any senior backend role!”
~ Chidi Onuekwusi, fellow senior backend engineer at NALA
 - Contacts available upon request.