

Eusebius NGEMERA

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Nice Area, France

eusebius.tech

Work Experience

- C++ Backend Engineer — Amadeus**, Nice Area, France *2017–present*
- Flight Search Orchestrator *2019–present*
 - **Technical Lead** on a C++ backend with 20 developers and over 4,000 TPS in Production.
 - Made valuable **scripts** for monitoring & release validation to ensure reliability.
 - Initiated and organised 4+ **technical hackathons** for the department. Topics include improving performance, fixing bugs and reducing technical debt.
 - Middleware C++ backend used by most backends in the company *2017–2019*
 - Co-responsible for a **mission-critical** application 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 — YesWeStock (early startup)**, London, UK *Jul–Sep 2016*
- **DevOps** on a **Python** Flask app with **PostgreSQL** database & **React** frontend on **Amazon Web Services**.
 - As the only backend developer, I added social login & a review system, increasing user signup rate by 20%.
 - Designed and documented new **REST** APIs in partnership with the internal, mobile app team.

Projects

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- ToDo Stats**: online tool for Microsoft To Do *Oct 2021–present*
- **Go** backend on AWS Elastic Container Service (**ECS**) with PostgreSQL and React **TypeScript** frontend.
- Chainlink’s Smart Contract Bootcamp** *Sep 2021–present*
- Learning to develop, test & deploy decentralised applications that use Chainlink’s **blockchain** data oracle.
- My Investing Journey**: blog series *Apr 2021–present*
- Explaining **personal finance** simply and comprehensively while sharing my investing thesis.
 - Part 1 has over 400 unique page views and part 2 (in progress) is “Commodities & Crypto—Decrypted!”
- 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.
- USB Oscilloscope**: Facebook London Hackathon 2016 on-site *24 hours, 2016*

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

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