

NUNO ALEXANDRE GONCALVES

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WORK EXPERIENCE

INFOSYS

Aug 2022 – Present

Software Engineer (Strategic Technology Group)

London, UK

- Developed key classes and APIs via **Python, SQLAlchemy, GraphQL, AWS** for BP's global refinery bookkeeping, calculating precise co-processing fuel cost in **under 2.1 seconds**.
- Awarded the **Rising Star award** for exceptional agile development contributions and leadership; partially led and mentored cross-functional teams and junior members.
- Built CRUD applications using **React, SpringBoot, Hibernate, JavaScript** emphasizing SOLID/OOP principles and design patterns learned from Infosys courses.

BARCLAYS

Jan 2020 – May 2023

LifeSkills Youth Advisory Councillor (Volunteer)

London, UK

- Worked as a panellist in the LifeSkills Unpacked seminar, leveraging public speaking skills to enhance and discuss career-focused education to **over 300 educators nationally**.
- Delivered presentations and discussions to classes in underprivileged schools, partnering with the **Talent Foundry charity** to inspire students in preparation for their GCSE exams.

ECHOBOX

Jul 2021 – Sep 2021

Operations Intern

London, UK

- Analysed **40%** of Echobox's customer base in Q3, reviewing **200 – 360 customers weekly** and adding **2000+ company accounts** to Salesforce, improving the company's customer insights (Salesforce)
- Built a Salesforce backend solution to reduce no-shows in BDR meetings, leveraging **Java, Apex, Salesforce Flow** to automate reminder emails through Salesforce (Salesforce Flow, Apex, Java)

J.P. MORGAN CHASE & CO

Mar 2020 – Apr 2020

Spring Into Technology Intern

London, UK

- Completed the **J.P. Morgan Spring into Technology** program, gaining foundational financial technology knowledge and valuable insights in the software development industry.
- Excelled in **J.P. Morgan workshops** on distributed databases, cybersecurity, and machine learning, gaining a deep understanding of their applications in the industry.

EDUCATION

UNIVERSITY OF BATH

Jul 2022

BSc (Hons) Computer Science Degree

Bath, UK

- Degree Classification: **First Class Honours**
- Coursework: C-- Compiler, Haskell Lambda Calculus Interpreter, Java Dungeons of Doom Replica

PERSONAL PROJECTS

TURING MACHINE LAMBDA CALCULUS CONVERTER | JavaScript

Dec 2021 – May 2022

- Built an iterative open-source Turing machine and untyped lambda calculus interpreter that can convert a Turing machine into a lambda calculus expression (and vice versa) **within a polynomial time overhead**.

TEMPLATE-BASED ICON MATCHING | Python, OpenCV

Feb 2022 – May 2022

- Built a Python program that detects a specific icon in a larger image containing multiple icons, creating a bounding box around the icon using SIFT with **98.5%** accuracy and with a runtime of **10.29s**.

TECHNICAL SKILLS & INTERESTS

- **LANGUAGES:** Python, C++, SQL, TypeScript, JavaScript
- **TECHNOLOGIES:** AWS Cloud, Pandas, NumPy, SQLAlchemy, React, Next.js, Node.js
- **INTERESTS:** Volunteering, Board Games (Chess, Risk), Emulation